

62

# Manns



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PROVEN QUALITY—  
Your Assurance of Dependability

*Superior Seeds  
Farm & Garden Supplies*



YOUR LAWN—See page 55

**J. MANNS & CO.**

Suburban Delivery, PLaza 2-1460

ENSOR & FORREST STS. • BALTIMORE 2, MARYLAND





**BUSH LIMA,  
FORDHOOK 242**  
Pt. 50c; qt. 90c



**TOMATO, EARLY GIANT HYBRID**  
Pkt. 50c;  $\frac{1}{8}$ oz. \$6.00; oz. \$37.50  
See page 21



**BEAN, TOPCROP**  
 $\frac{1}{2}$ pt. 25c; pt. 45c; qt. 80c



**PARSLEY,  
EXTRA DARK  
Champion Moss-  
Curled**  
Pkt. 15c; oz. 25c;  
 $\frac{1}{4}$ lb. 75c

**GROW  
THESE  
PROVEN  
VARIETIES**



**LETTUCE, GREAT LAKES**  
Pkt. 15c; oz. 85c;  $\frac{1}{4}$ lb. \$2.50



**CORN, IOCHIEF**  
 $\frac{1}{2}$ pt. 40c; pt. 75c;  
qt. \$1.25



**RADISH, CHAMPION**  
Pkt. 25c; oz. 40c;  $\frac{1}{4}$ lb. 85c  
All-America Winner



**CARROT, GOLD PAK**  
Pkt. 15c;  
oz. 40c;  
 $\frac{1}{4}$ lb. \$1.25



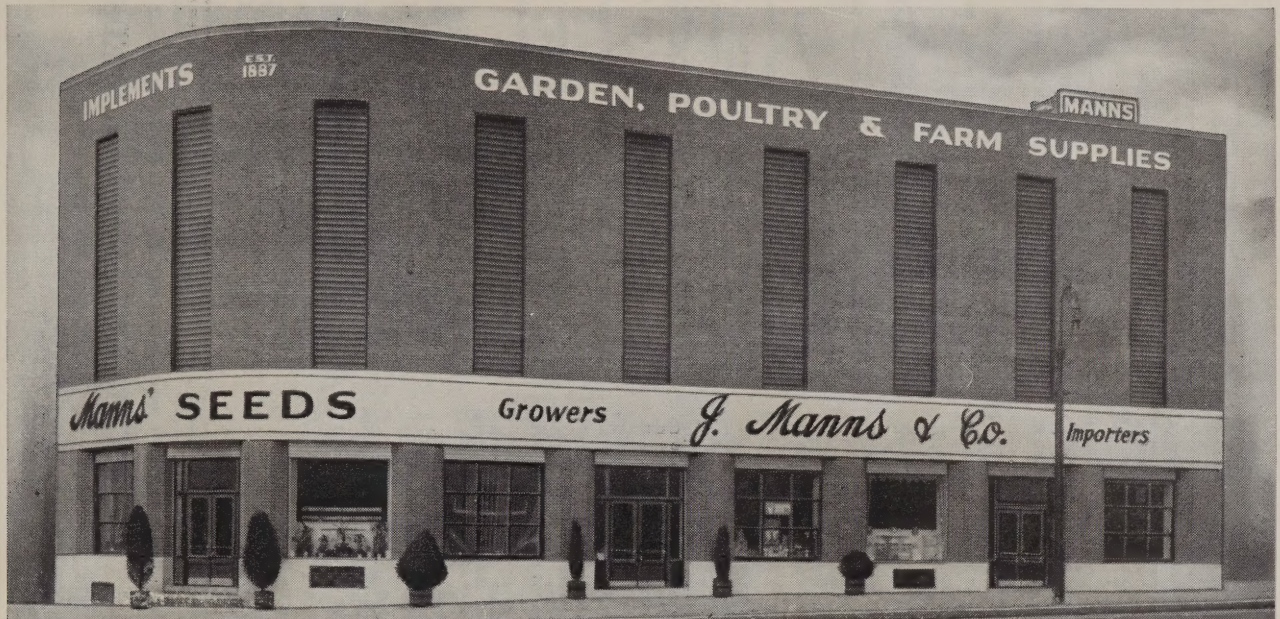
**SUBURBAN DELIVERY**

**ALWAYS EASY PARKING**

**Phone PLaza 2-1460**

Corner Ensor & Forrest Streets  
at Belair Market

Baltimore 2, Md.



*You will enjoy Garden Shopping at Manns'*

**MAIL ORDERS: We pay Parcel Post or Express Charges** on all vegetable and flower seeds, except Beans, Corn, Peas, and Seed Potatoes. This enables distant customers to use Manns' Superior Seeds at no additional expense.

Shipments of baby fowl, live plants, nursery stock and agricultural products may weigh up to 70 lbs. and measure up to 100 inches combined length and girth. Other merchandise is limited to 40 lbs. in local, first and second zones; to 20 lbs. in zones 3 to 8 and may not exceed 72 inches combined length and girth.

POSTAGE RATES						POSTAGE RATES					
Weight in pounds	Local	Zone 1-2 Up to 150 mi.	Zone 3 150 to 300 mi.	Zone 4 300 to 600 mi.	Zone 5 600 to 1000 mi.	Weight in pounds	Local	Zone 1-2 Up to 150 mi.	Zone 3 150 to 300 mi.	Zone 4 300 to 600 mi.	Zone 5 600 to 1000 mi.
1	0.18	0.23	.23	0.24	0.26	16	.40	.83	1.01	1.28	1.65
2	.20	.27	.29	.31	.36	17	.42	.87	1.06	1.35	1.74
3	.21	.31	.34	.38	.45	18	.43	.91	1.11	1.42	1.84
4	.23	.35	.39	.45	.54	19	.45	.95	1.16	1.49	1.93
5	.24	.39	.44	.52	.63	20	.46	.99	1.21	1.56	2.02
6	.26	.43	.49	.59	.73	21	.47	1.02	1.26	1.62	2.11
7	.27	.47	.54	.66	.82	22	.49	1.06	1.32	1.69	2.21
8	.29	.51	.60	.73	.91	23	.50	1.10	1.37	1.76	2.30
9	.30	.55	.65	.80	1.00	24	.52	1.14	1.42	1.83	2.39
10	.32	.59	.70	.87	1.10	25	.53	1.18	1.47	1.90	2.48
11	.33	.63	.75	.93	1.19	26	.55	1.22	1.52	1.97	2.58
12	.34	.67	.80	1.00	1.28	27	.56	1.26	1.57	2.04	2.67
13	.36	.71	.85	1.07	1.37	28	.58	1.30	1.63	2.11	2.76
14	.37	.75	.90	1.14	1.47	29	.59	1.34	1.68	2.18	2.85
15	.39	.79	.96	1.21	1.56	30	.61	1.38	1.73	2.25	2.95

**PLEASE READ—Non-Warranty** It is very evident to anyone who gives the matter the slightest thought that it is to our best interests to send out only such stock as will grow and prove true to name and description. There are, however, so many contingencies to be encountered, entirely beyond our control, such as the weather, soil and other conditions that:

**J. Manns & Company give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any Seeds, Plants or Bulbs we sell, and we will not be responsible for the crop. Our liability, in all instances, is limited to the purchase price of the Seeds, Plants or Bulbs.**



# How and When to Plant Vegetables

Vegetables	Seeds or Plants to Provide For Family of Five	Date to Sow or Plant Outdoors		Depth to Cover Inches	Space Between Rows	Set Plants or Thin Out Inches	Time Required to Produce Crop	Number of Running Feet of Row for Family of 5	SPECIAL NOTES
		First	Last						
Asparagus	1 oz. or 50	Mar. 20	Aug. 1	Seeds 1 in.	3 to 4 ft.	12 in.	Seeds 4 years	50 ft.	A well-cared for bed improves with age and lasts for many years. Midseason and late in both green and wax podded kinds.
Beans (Bush)	2 qts.	April 20	Aug. 15	Plants 4 in.	2 ft.	3 to 4 in.	Plants 2 years	200 ft.	Select early and late, green and wax pod.
Beans (Pole) (Times, see below)	½ pt.	May 5	Aug. 1	2 in.	3 to 4 ft.	3 ft. (hills)	90 to 120 days	80 to 100 hills	Select early, midseason and late kinds for winter use.
Beet	2 oz.	Mar. 20	Aug. 15	½ to 1 in.	18 in.	2 to 3 in.	60 to 80 days	80 ft.	Handle exactly like Cauliflower.
Borecole or Kale	1 pkt.	April 5	Sept. 1	¾ in.	2½ ft.	12 in.	80 to 100 days	20 ft.	The most delicate of all the cabbage tribe.
Brussels Sprouts	1 pkt. or 15	May 5	Aug. 10	Seed ¼ in.	2½ ft.	24 in.	120 days	20 ft.	Set out 2 doz. early, 1 doz. midseason and 2 doz. late kinds.
Cabbage	36	April 20	Sept. 15	Seed ¼ in.	2 to 3 ft.	18 to 24 in.	100 to 150 days	60 ft.	Sow only on August 1st for fall use only.
Chinese Cabbage	1 pkt.	July 20	Aug. 1	¾ in.	2½ ft.	12 in.	80 to 100 days	20 ft.	Sow short rows often. Sow on August 1st for winter use.
Carrot	½ oz.	Mar. 20	Aug. 1	½ in.	1½ to 2 ft.	2 to 3 in.	45 to 60 days	40 ft.	Treat very much like Cabbage.
Cauliflower	24	April 5	July 10	Seed ¼ in.	2 to 3 ft.	2 ft.	120 to 150 days	20 ft.	Select an early and a late variety.
Celery (Sweet)	½ oz. or 60	Mar. 20	July 15	2 in.	3 ft.	6 in.	100 to 120 days	60 ft.	Sow in blocks of short rows, for perfect pollination.
Cucumber	1 pkt.	April 20	Aug. 5	¾ in.	4 to 5 ft.	(3 to hill)	60 to 80 days	10 hills	When picking, cut stems; do not pull vines.
Eggplant	12	May 20	July 25	¾ in.	2½ ft.	36 in.	100 to 120 days	20 ft.	Needs lots of heat and frequent hoeing.
Endive	1 pkt.	April 5	Aug. 10	¾ in.	2 ft.	24 in.	60 to 80 days	40 ft.	To bleach, tie plants into cone shape.
Kohlrabi	1 pkt.	April 5	Aug. 10	¾ in.	1½ to 2 ft.	4 to 6 in.	60 to 80 days	60 ft.	Should be used when roots reach a diameter of 2½ in.
Lettuce	1 pkt.	Mar. 20	July 15	½ in.	2 ft. to 2 ft.	4 in. 12 in.	100 days	20 ft.	Grow like Onions and hill to bleach stalks.
Lima Beans (Bush)	2 oz. (4 kinds)	June 1	July 10	1 in.	2½ to 3 ft.	2 ft. (hills)	45 to 60 days	100 ft.	Should be thinned out to stand a foot apart.
Lima Beans (Pole)	1 pt.	June 1	July 10	1 in.	3 ft.	3 ft. (hills)	100 days	100 ft.	Select an early and a late variety in both classes.
Melons	1 pkt.	May 10	Aug. 20	¾ to 1 in.	4 ft.	4 ft. (hills)	100 to 120 days	10 hills	See note on Cucumbers.
Onion Sets	1 oz.	Mar. 20	Aug. 10	¾ to 1 in.	18 in.	3 or 4 in.	80 to 110 days	80 ft.	Weeding and hoeing are their chief requirements.
Parsley	1 qt.	Mar. 20	Aug. 10	¾ to 1 in.	12 in.	2 in.	20 to 60 days	40 ft.	Seed requires 3 to 6 weeks to germinate.
Parsnips	1 pkt.	April 5	June 1	¾ to 1 in.	15 to 18 in.	4 in.	100 to 120 days	50 ft.	Cultivate well during the growing season.
Peas	3 pts.	Mar. 20	Aug. 10	2 in.	15 to 18 in.	2 to 4 in.	150 days	50 ft.	The early smooth seeded sorts may be sown a month before the later, wrinkled varieties.
Pepper	12	May 5	Aug. 20	4 in.	3 ft.	2 ft.	100 days	20 ft.	See note on Eggplants.
Potatoes	15 lbs.	May 20	Sept. 1	¾ in.	3 to 6 ft.	6 in. (hills)	100 days to 90 days	200 ft.	Itically a farm crop.
Pumpkin	3 pts.	May 20	July 1	¾ in.	18 in.	1 to 4 in.	50 to 60 days	12 hills	When storing, prevent bruising. Store close.
Pumpkin	3 pts.	May 20	Sept. 1	¾ in.	3 ft.	1 to 4 in.	50 to 60 days	50 ft.	Should be thinned out to stand a foot apart.
Rhubarb	6 pkt.	Mar. 20	Oct. 1	¾ in.	3 ft.	2 to 4 in.	60 days	20 ft.	Requires a lot of space and plenty of manure.
Salsify	½ oz.	Mar. 20	June 1	1 to 1½ in.	15 to 19 in.	2 to 4 in.	90 to 100 days	40 ft.	Sow around August 1st for winter use.
Spinach	1 oz.	April 20	July 20	¾ to 1 in.	12 in.	2 to 4 in.	100 to 150 days	25 ft.	Can be stored for winter use or left in ground until spring.
Squash	1 pkt.	Mar. 20	Aug. 10	¾ to 1 in.	4 to 6 ft.	4 ft. (hills)	60 days	75 ft.	Plant short rows often.
Swiss Chard	½ oz.	Feb. 18	July 1	¾ to 1 in.	1½ to 2 ft.	4 ft. (hills)	100 to 120 days	12 hills	Sow on August 1st for fall use only.
Tomato	1 pkt. or 43	Indoors	May 5	Seed ½ in.	3 to 4 ft.	6 in.	80 to 100 days	40 ft.	Treat like Beans.
Turnips	1 pkt.	Mar. 20	Aug. 31	¾ in.	15 to 20 in.	3 ft.	100 to 120 days	150 ft.	For best results train to stakes or trellis.
						2 to 4 in.	60 to 80 days	60 ft.	Sow again in August for winter use.

## NUMBER OF WEEKS BETWEEN SOWING FOR CONTINUOUS HARVEST

Beans	4 weeks	Cucumbers	4 weeks	Kohlrabi	3 weeks	Sweet Corn	2 weeks	Radishes—Early	3 weeks
Beets	6 weeks	Endive	6 weeks	Turnips	4 weeks	Onion Sets	4 weeks	Radishes—Midseason	3 weeks
Carrots	8 weeks	Lettuce	4 weeks	Spinach	2 weeks	Peas	2 weeks	Radishes—Winter	6 weeks

In the vicinity of Baltimore many varieties are sown in hot-beds during February, March and April to be planted out about May 10th, or earlier in the case of some varieties where the plants may be hardened off.

Some vegetables, such as Cabbage, Lettuce and Spinach, are sown at varying dates, according to variety.

## SOW MANN'S' SUPERIOR SEEDS



## ARTICHOKE

**GREEN GLOBE**—Tender perennial producing edible, globe shaped, flower buds the second year.

## ASPARAGUS

**MARY WASHINGTON**—Resistant to rust, large, early and produces remarkably tender dark green stalks.

## ASPARAGUS ROOTS

From one to two years may be saved by planting roots. **MARY WASHINGTON**—Choice, 2-year-old roots. 85c per 25; \$2.75 per 100; \$20.00 per 1000.

## BROCCOLI

**CALABRESE HEADING**—(80-90 days from plants) Popular market gardeners variety making a large central head and a good crop of side shoots.

**DE CICCIO**—(60 days from plants) An extra early strain capable of producing large heads followed by quantities of side shoots excellent for bunching or freezing. Highly recommended as the earliest maturing Broccoli obtainable.

**40 DAY**—Sown very early produces an abundance of leaves and tender flower shoots used as greens. Must be cut in bud as it goes to seed rapidly.

**GREEN MOUNTAIN**—(65 days from plants) Makes compact, very large, dark green center heads that are slow to go into bloom. Laterals are produced slowly and are sometimes nearly as large as the center heads.

**ITALIAN GREEN SPROUTING**—(Turnip Salad Broccoli.) Grows more "greens" than seven top turnip and is fairly hardy in Maryland, making a profitable cover crop. Sow in August broadcasting two to three pounds per acre and the sprouts will be ready for market during February or early March.

## BRUSSELS SPROUTS

**CATSKILL MOUNTAIN STRAIN**—(90 days from plants) Found to be the best variety both in quality and productiveness.

## BUSH LIMA BEANS

1 pt. to 100 ft.; 1 bu. per acre

After June first, when the ground has become warm, plant in 3 foot rows dropping 3 seeds to a hill and the hills 15 inches apart or sow in a row and thin to 8 in. apart.

**BABY FORDHOOK**—(70 days) Pods 2½ in. by ¾ in. having 3 to 4 tightly packed plump, green beans, plant about 15 in., bushy, very prolific. Excellent quality.

**BURPEE'S IMPROVED BUSH**—(76 days) Pods about 5 inches long, beans about size of pole limas.

**FORDHOOK 242**—(75 days) Heaviest yielding high quality bush lima. The most dependable variety under adverse conditions.

## POLE LIMA BEANS

1 pt. to 100 ft.; 8 to 10 qts. per acre

**IMPROVED CHALLENGER**—(92 days) Vigorous and very productive bearing until frost. Pods and beans resemble Fordhook Bush Limas. Finest quality.

**KING OF THE GARDEN**—(90 days) Used extensively because of its sizeable pods filled with four or five large white beans of fine quality.

**SIEVA**—(small white) (78 days) Known as butter beans. Pods 3½ in. x ⅞ in.

## BUSH BEANS

### Used As Shell Beans

**WHITE KIDNEY**—(100 days) Used green, shelled or dry. Seeds large, white, kidney shaped, and of fine quality.

**WHITE MARROWFAT**—(100 days) Suitable both for green shells and dry beans. Pods broad, about 5½ inches long, having large oval, clear, white seeds.

**WHITE NAVY**—(110 days) Grown for baked beans. Pods short inedible. Dry seeds small oval glossy white.

## POLE BEANS

### Edible Podded

For Cultural Directions See Pole Limas

**KENTUCKY WONDER**—(65 days) Extremely productive and of finest quality. Pods round, about 9 inches long. Continues to bear for a long period.

**WHITE KENTUCKY WONDER**—(65 days) Bears large, brittle, stringless pods of excellent flavor. Seeds white, fine for baking.

**YARD LONG, CELESTIAL**—(70 days) Very prolific, rust proof; produces pods 18 to 30 inches long, tender, stringless and of excellent quality.

**HORTICULTURAL CRANBERRY**—(72 days) Also known as Pole Cherry, Corn Field or Wren's Egg. A snap and shell bean. Producing large quantities of 5 and 6-inch pods which are broad, thick, and of fine flavor.

## FAVA BEANS

**CALIFORNIA IMPROVED LONG POD**—(150 days) For green shelled use. Should be planted as early as possible. Pods, thick, 10 in. long, 1¼ in. wide.

### PRICES

ARTICHOKE	Pkt.	Oz.	¼ Lb.	Lb.
Green Globe	.....	\$1.15	\$1.00	\$3.00
<b>ASPARAGUS</b>				
Mary Washington	.....	.15	.25	.85
<b>BROCCOLI</b>				
Calabrese Heading	.....	.15	.25	.90
De Ciccio (ex. early)	.....	.15	.25	.90
Green Sprouting (Turnip Salad)	.....	.15	.25	.50
40 Day	.....	.15	.25	.60
Green Mountain	.....	.15	.55	1.60
<b>BRUSSELS SPROUTS</b>				
Catskill Mountain Strain	.....	.25	1.00	3.00
Long Island Improved	.....	.15	.50	1.75
<b>BUSH LIMAS</b>				
	½ Pt.	Pt.	Qt.	Pk.
Baby Fordhook	.....	\$.30	\$.50	\$.90
Burpees Improved Bush	.....	.30	.50	.90
Fordhook #242	.....	.30	.50	.90
Henderson's Bush	.....	.20	.40	.75
Wood's Prolific	.....	.30	.50	.90
<b>FAVA BEANS</b>				
California Improved Long Pod	.....	.25	.45	.80
<b>POLE LIMAS</b>				
Improved Challenger	.....	.30	.50	.90
King of the Garden	.....	.25	.45	.80
Sieva (small white)	.....	.20	.35	.65
<b>BUSH BEANS</b>				
Red Kidney	.....	.25	.45	.75
White Kidney	.....	.25	.45	.75
White Marrowfat	.....	.25	.45	.75
White Navy	.....	.25	.45	.75



## BUSH BEANS

1 pt. to 100 ft. of drill; 1 to 1½ bu. per acre

Beans are tender and should not be planted until the soil is well warmed. Sowing too early will often result in a poor stand and uneven ripening. Sow the seed 1½ to 2 inches deep in rows not less than 18 inches apart and firm the soil to assist germination. Allow the plants to stand 4 to 10 inches apart in the row according to variety.

Shallow cultivating and hoeing should be done frequently until the vines begin to blossom. Disturbing the roots after the blossoms are formed will cause them to drop resulting in a greatly reduced crop. To prevent blight do not cultivate deeply and avoid working them while the vines are wet. Beans grow best in warm, well-drained, sandy loam. For succession plant every two weeks until about August 15th.

### Green Podded Varieties

**ASGROW BLACK VALENTINE**—(Oval Pod) (50 days) Fully as hardy and early as the original Black Valentine may be safely planted earlier than other varieties. Pods 6¾ in. long ¾ in. wide. Oval or nearly round. Prolific, entirely stringless, and of high quality.

**BOUNTIFUL**—(50 days) Extra early, good cropper, hardy, prolific; pods long, straight, thick-flat, entirely stringless, good quality.

**BURPEE'S STRINGLESS IMPROVED** (Landreth's) (50 days) Desirable home garden variety combining 5½ in. long by ⅞ in. dia. The pods are rich dark green in color, smooth, absolutely round, meaty, stringless, free from fiber, and of exceptionally delicate quality.



Top Crop

**CONTENDER**—(55 days) An improved, more productive stringless Black Valentine type. Resistant to bean mosaic and powdery mildew diseases. Pods slim 6½ in. long nearly round, dark green and stringless.

**DWARF HORTICULTURAL OR DWARF CHERRY**—(Stringless snaps, 50 days; green shelled 60 days; dried 85 days) One of the best for both snap and green shell beans equal to the lima in quality while any surplus crop can be kept for winter use. Pods are 5½ inches long, ⅝ in. wide; thick-flat, meaty and stringless when young.

**TENDERGREEN**—(50 days) (New Stringless) A quality bean for home, market, shipping canning or freezing. Pods 6¼ in. long, ⅜ in. dia. dark green, tender and fiberless.

**TENDERLONG 15**—(50 days) An improved Tendergreen, resistant to more diseases. Plants erect, compact and highly productive. Pods 6¼ in. long, ⅜ in. diam., straight, with fine flavor, color and quality for canning, freezing or fresh use.

**TOP CROP NEW IMPROVED**—(50 days) Awarded All-America Selections Gold Medal for 1950. Most desirable for processing. Very prolific, hardy and vigorous. Resistant to mosaic diseases. Pods round, medium green. 6 in. long, ⅞ in. dia.

### Wax Podded Varieties

**CHEROKEE WAX** (53 days) Deep golden yellow 6½ in. x ⅞ in. oval pods. Stringless, of excellent quality for home, market and shipping. Seed Black.

**PENCIL POD WAX**—(55 days) Vigorous grower and strongly productive. The golden yellow pods are round, fleshy, tender, entirely stringless and of fine quality. Seed black.

**ROUND POD KIDNEY WAX**—(62 days) (Brittle Wax) Pods are long, straight, brittle, meaty; entirely stringless and of exceptionally desirable quality. The best round-podded wax bean for canning or freezing. Seed white.

### PRICES

Let us quote larger quantities.

#### GREEN PODDED

	½ Pt.	Pt.	Qt.	Pk.
Asgrow Black Valentine	\$.25	\$.40	\$.75	\$4.50
Bountiful	.25	.40	.75	4.50
Burpess Stringless	.25	.40	.75	4.50
Contender	.25	.45	.80	5.00
Dwarf Horticultural				
Cherry	.30	.55	1.00	5.50
Seminole	.25	.45	.80	5.00
Slendergreen	.25	.45	.85	5.50
Supergreen	.30	.55	1.00	5.50
Improved Tendergreen	.25	.40	.80	5.00
Top Crop New Improved	.25	.45	.80	5.00
Tenderlong 15	.25	.45	.80	5.00

#### WAX VARIETIES

Cherokee Wax	.25	.45	.85	5.25
Golden Wax, Improved	.25	.40	.75	4.50
Pencil Pod Wax	.25	.45	.85	5.25
Round Pod Kidney Wax	.25	.45	.85	5.25

#### POLE BEANS

Horticultural Cranberry	.30	.50	.85	4.50
Kentucky Wonder	.30	.50	.85	4.50
Kentucky Wonder Wax	.35	.60	1.15	7.00
Lazy Wife	.30	.50	.90	5.00
White Kentucky Wonder	.30	.50	.90	5.00
Yard Long, Celestial—Pkt., 10c; oz. 25c.				



# BEETS

1 oz. to 50 ft. of drill; 5 lbs. per acre

The soil for beets should be non-acid, light, rich, fine and deeply cultivated. Smooth beets cannot be grown if fresh manure is used. If wanted very early, sow in hot beds and transplant, cutting off the outer leaves. For early outdoor crop plant the seeds about 1 inch apart and 1 inch deep in rows 1 to 2 feet apart, firming the soil about the seeds. This should be done as soon as the ground can be worked. For table use, plantings should be made every three weeks. Thin the plants to 3 inches apart. For main crop sow in the early part of May while for winter use they may be planted up to August 1.

## MANNS' BEET SEED

is grown from transplanted roots which have been carefully selected as to both interior and exterior color, tops, shape and uniformity of size. It could be grown much cheaper if we were supplying our trade just ordinary commercial beet seed. Superior seeds can only be grown from specially selected parent stocks.

**CROSBY'S EGYPTIAN**—(55 days) Smooth, flattened globe shaped roots with small tap root. Color, deep purplish-red in the dark strain and bright crimson in the lighter strain. Tops medium.

**DETROIT DARK RED**—Long Top—(60 days) The tops are tall, strong and upright; roots globular, of medium size, very smooth and dark red throughout.

**EARLY WONDER GREEN TOP**—(58 days) Roots nearly globe shaped, deep purplish-red, zoned brighter red. Tops strong, numerous, medium, retaining fresh bright green color.

**EARLY WONDER TALL TOP**—(62 days) Grown for markets where tops are used for greens.

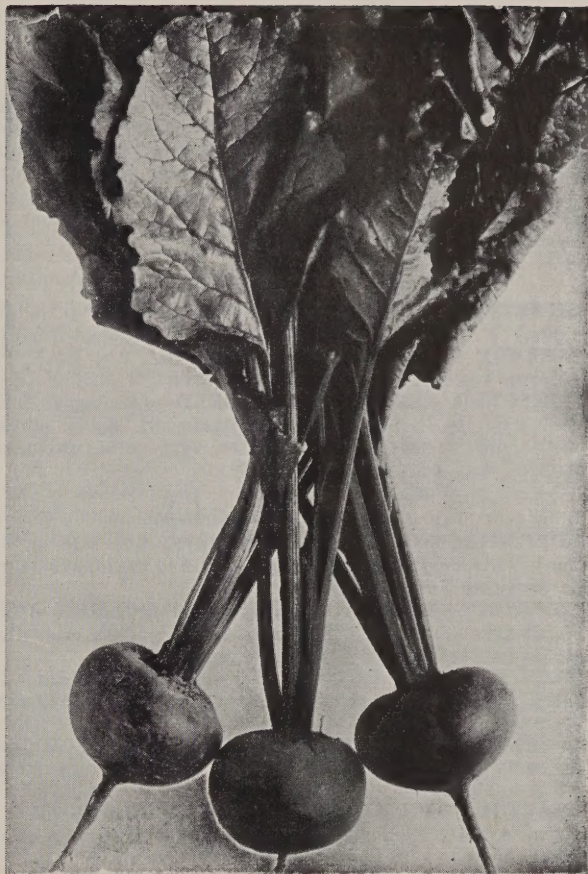
**HALF LONG LENTZ**—(78 days) Bright red outside, flesh pale pinkish white, sweet, about 2½ by about 4 inches top shaped.

**PERFECTED DETROIT**—(62 days) Extremely dark red, has plenty of top for bunching and is also an excellent canners variety.

## Beets—Mangel (or Stock)

1 oz. to 100 feet of drill, 6 lbs. per acre in drills or 15 to 20 lbs. per acre if sown broadcast.

**MAMMOTH LONG RED**—(110 days) Attains enormous size, producing thirty to fifty tons per acre. Grows well above the ground and is therefore easily gathered. Flesh white tinged rose. High feeding quality.



Beet—New Model

**NEW MODEL**—(56 days) Perfect in shape with strong abundant tops for bunching and roots of a beautiful solid red color, very uniform in size, the entire crop maturing during the same week. This variety fills a definite need among market gardeners and has met with continuing success. Practical growers realizing the superior quality of this strain are ordering in 25, 50 and 100-pound lots, using this one variety throughout the entire season.

## PRICES

	Pkt.	Oz.	¼	10
	Lb.	Lb.	Lb.	Lbs.
Crosby's Egyptian —				
Dark .....	\$ .15	\$ .25	\$ .50	\$ 1.50 \$ 14.00
Detroit Dark Red (Long				
Top) .....	.15	.25	.50	1.50 14.00
Perfected Detroit .....	.15	.25	.50	1.50 14.00
Early Wonder Tall Top	.15	.25	.50	1.50 14.00
Green Top Bunching—				
Tall .....	.15	.25	.50	1.50 14.00
Lentz (Ex. Early Light				
Red) .....	.15	.25	.60	1.75 15.00
Mammoth Long Red .....	.15	.25	.45	1.25 9.50
New Model .....	.15	.25	.60	1.75 15.00

Let Us Quote Larger Quantities



## CABBAGE

1 oz. for 2,500 plants; ¼ lb. per acre

**CULTURE**—The best results are obtained from a well-drained, deep rich loam. The very early varieties should be sown about September 15 and in 4 or 5 weeks transplanted to open ground. However, the seed may be sown in hotbeds in February; making plantings later of course according to variety and time crop is wanted. Earliest sorts should be set 18 inches apart, 2 feet between rows.

### First Early (Pointed Heads)

**CHARLESTON WAKEFIELD**—(74 days. 6½ in. dia. 4 lbs.) Produces larger and heavier heads than Jersey.

**\*JERSEY QUEEN**—(66 days. 5 in. dia. 2½ lbs.) The yellows resistant Jersey Wakefield.

**SELECTED JERSEY WAKEFIELD**—(63 days. 5 in. dia. 2½ lbs.) An improved strain of Early Jersey Wakefield. Heads of medium size, very solid, uniformly pointed and of excellent quality.

### (Round Heads)

**COPENHAGEN MARKET**—(69 days. 6½ in. dia. 3½ lbs.) This very fine, large round headed variety is nearly as early as Jersey Wakefield.

**\*DETROIT—YELLOWS RESISTANT GOLDEN ACRE**—(68 days. 7 in. dia. 3½ lbs.) About a week later than Golden Acre. Plant slightly larger.

**EARLY ROUND DUTCH**—(71 days. 7½ in. dia. 4½ lbs.) Nearly globe shaped, solid, or good quality, short stemmed, Relatively nonbolting.

**GOLDEN ACRE**—(63 days. 6 in. dia. 3 lbs.) Matures as early as Jersey Wakefield, forming a large round, solid head.

**\*RACINE MARKET—YELLOWS RESISTANT**—(72 days. 4 lbs.) Heads firm and compact, deep blue-green color.



Selected Jersey Wakefield

### Second Early

**RED ACRE**—(80 days. 6 in. dia. 4 lbs.) Round, solid, deep red color.

**\*GLOBE**—(80 days. 8½ in. dia. 6½ lbs.) A yellows resistant glory of Enkhuizen.

**GLORY OF ENKHUIZEN**—(77 days. 8 in. dia. 5 lbs.) Large sure heading, dark green variety, globular, very hard and solid.

**\*MARION MARKET**—(79 days, 6½ in. dia. 4½ lbs.) Yellows Resistant Copenhagen.

**\*WISCONSIN ALL SEASON**—(90 days. 10 in. dia. 9 lbs.) Yellows Resistant. Shows considerable resistance to drought.

### Fall and Winter

**CHIEFTAIN SAVOY**—(88 days. 8 in. dia. 6 lbs.) Medium size, solid, dark green heads with typical savoy superior flavor.

**DANISH BALL HEAD**—(103 days. 7½ in. dia. 6½ lbs.) Heads almost globe shaped, very hard, interior very compact, tender texture, of good flavor.

**PENN STATE BALL HEAD**—(105 days. 7½ in. dia. 5½ lbs.) Hard flattened globe.

**POINTED HEAD WINTER**—(84 days. 6 in. dia. 3½ lbs.) Sow the seed in time to set out plants about July 15th. Stands temperatures down to 24 degrees.

**PREMIUM LATE FLAT DUTCH**—(100 days. 12 in. dia. 12 lbs.) The heads are flat, very large, heavy and keep well for winter use.

**\*WISCONSIN HOLLANDER YELLOWS RESISTANT**—(105 days. 7½ in. dia. 8 lbs.) A Danish ball head type, very large, hard, sure heading.

## CHINESE CABBAGE

1 oz. to 150 ft. of row; 2 lbs. per acre

Chinese or Celery Cabbage belongs to the cabbage family but more closely resembles lettuce. For best results plant the seed in July or very early in August as spring plantings in this section are liable to bolt to seed. Plant the seed in the permanent bed and thin out to stand 12 to 15 inches apart.

**MICHIHLI**—(70 days from seed. 4 in. thick, 16 to 18 in. long.) Solid, crisp, well blanched, tender heads of excellent quality. Stores well for winter use.

### PRICES

	Pkt.	Oz.	¼ Lb.	Lb.
All Head Early	\$.15	\$.30	\$.95	\$3.00
American Drumhead Savoy	.15	.35	1.00	3.50
Charleston Wakefield	.15	.35	.90	3.00
Chiefton Savoy	.15	.40	1.25	4.00
Copenhagen Market	.15	.35	.90	3.00
Danish Ball Head	.15	.40	1.25	4.00
Early Flat Dutch	.15	.35	.90	3.00
Ferry's Ea. Round Dutch	.15	.40	1.25	4.00
Glory of Enkhuizen	.15	.30	1.00	3.50
Golden Acre (Original)	.15	.40	1.25	4.00
Jersey Wakefield (Sel.)	.15	.35	.90	3.00
Medium Copenhagen	.15	.60	1.75	5.00
Pointed Head Winter	.15	.50	1.50	5.00
Penn State Ballhead	.15	.50	1.50	5.00
Premium Late Flat Dutch	.15	.35	.90	3.00
Red Acre	.15	.40	1.25	4.00

### \*YELLOWS RESISTANT VARIETIES

	Pkt.	Oz.	¼ Lb.	Lb.
All Head Select	\$.15	\$.45	\$1.35	\$4.00
Detroit (Res. Golden Acre)	.15	.50	1.50	4.50
Globe (Resistant Glory)	.15	.50	1.50	4.50
Green Globe, Improved	.15	.50	1.50	4.50
Jersey Queen	.15	.50	1.50	5.00
Marion Market	.15	.40	1.25	4.00
Racine Market	.15	.50	1.50	5.00
Wisconsin All Seasons	.15	.40	1.25	4.00
Wisconsin Hollander #8	.15	.50	1.50	4.50
<b>CHINESE CABBAGE</b>				
Michihli	.15	.25	.75	2.25



## CARROTS

1 oz. to 150 feet of drill; 4 pounds per acre

Sow as early as the ground can be worked or for late crop until the latter part of July, in drills 12 to 18 inches apart, finally thinning the plants to 2 to 3 inches in the drills. The seed is slow to germinate and if sown early or on moist soil, half an inch is deep enough. When sown during the hot summer months it is well to protect the seed bed with a thin layer of chips or straw as excessive heat will kill the vitality of the seeds before they germinate. After the seed has sprouted remove the covering, selecting the late afternoon for this work. Carrots are usually quite free from pests and diseases.

**CALIFORNIA BUNCHING**—(78 days, 7 in. x 1½ in.) A bunching carrot for long distance shipping. Roots cylindrical, deep orange throughout, well stumped, tops strong.

**CHANTENAY (LONG) MODEL**—(70 days, 7 in. x 2 in.) Excellent, medium early, half-long variety. Smooth, deep orange-red, flesh very crisp and tender. Easily harvested and bunched.

**CORELESS OR SCARLET NANTES**—(68 days, 6 in. x 1¾ in.) The earliest of its type; bright orange, smooth skin; small top. Fine quality.

**DANVERS—RED CORE**—(75 days, 7 in. x 1¾ in.) An exceptionally fine carrot for home and market garden use. They are orange-red in color and the flesh is sweet, crisp and tender.

**GOLD PAK**—(75 days) An all American winner for bunching or celolpack—long, slender, rich orange colored, smooth, excellent keeper.

**IMPERATOR LONG**—(80 days, 9 in. x 1½ in.) Heavy cropper in deep loamy soil. Practically coreless, orange red color. Ideal for bunching.

**NO. 92—BUSHELING**—(78 days, 10 in. x 2¼ in.) Large fine quality long, thick, Danvers type used for fall or winter market.

**SUPREME HALF LONG**—(75 days) 6½ inches x 2 in. shoulder.) Deep orange, very refined with small core having same color. Roots taper to half stump. Excellent keeper with broad high shoulder. If sown in June it produces excellent crop for winter storage.

### PRICES

	Pkt.	Oz.	¼ Lb.	Lb.
California Bunching	\$.15	\$.25	\$.50	\$1.75
Chantenay (Long) R. C.	.15	.25	.50	1.75
Danvers Half Long	.15	.25	.50	1.75
Gold Pak	.15	.40	1.25	4.00
Imperator	.15	.25	.50	1.75
Improved Long Orange	.15	.25	.50	1.75
Nantes Coreless (Special)	.15	.25	.75	2.25
No. 92—Large Busheling	.15	.25	.75	2.25
Oxheart	.15	.25	.50	1.75
Red Cored Danvers	.15	.25	.75	2.00
Supreme Half Long	.15	.25	.75	2.25

Let Us Quote Larger Quantities

## CAULIFLOWER

1 oz. to 2,000 plants

Some growers prefer to make their first sowing in hot-beds during January or February and transplanting them 2 to 3 in. apart, assuring vigorous growth before being set out in March.

A second sowing the first week in May transplanted to the field the last week in June will make a very satisfactory crop before heavy frost.

Sow **SNOWBALL** for Spring Crop and **WHITE MOUNTAIN** for Fall.

**EARLY SNOWBALL**—(55 days from plants.) Grown mainly for a late spring crop from seed sown in Fall or Winter. Sure heading if planted out very early in March.

**WHITE MOUNTAIN**—(60 days from plants.) Dependable uniform heading variety for fall crop if sowed about June 15th. Produces 1½ to 2 lb. heads, 6½" to 7" in diameter.

## Celeriac (Root Celery)

**LARGE SMOOTH PRAGUE**—(120 days from plants) Large, smooth and almost round. Plants vigorous, with large dark green foliage.

## CELERY

1 oz. to 5,000 plants; 20,000 plants per acre

**FULL-HEART EASY BLANCHING**—(100 days from plants) The most profitable variety for growers who trench celery for early market. A green variety easily blanched, producing maximum size hearts of a yellowish cream color. The stalks are well rounded, crisp and of excellent quality.

### PRICES

#### CAULIFLOWER

	Pkt.	Oz.	¼ Lb.	Lb.
Early Snowball	\$.25	\$2.00	\$7.00	\$25.00
White Mountain	.25	2.00	7.00	25.00

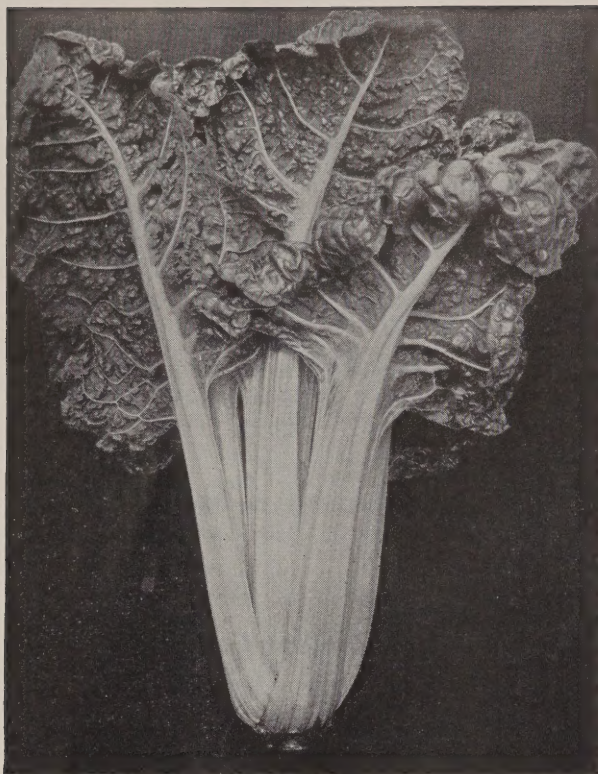
#### CELERIAC

Large Smooth Prague	.15	.50	1.75	6.00
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#### CELERY

	Pkt.	Oz.	¼ Lb.	Lb.
Full Heart Easy Blanching	\$.15	\$.50	\$1.75	\$6.00
Giant Pascal	.15	.50	1.75	6.00
Golden Self Blanching	.15	.50	1.75	6.00
Tall Non-Bolting Golden Plume	.25	1.50	4.50	14.00
Utah Pascal No. 15	.15	1.00	3.25	10.00
Seed for Flavoring	---	\$.10	\$.35	1.25





Swiss Chard—Fordhook Giant

## CHARD (Swiss)

1 oz. to 150 ft. of row; 8 lbs. per acre

Sow seeds the same as ordinary beet seed but thin out at first to 6 inches apart, later to 1 foot apart.

**COMMON GREEN (SPINACH BEET)**—(60 days from seed) Light green smooth leaves with small midrib. A particularly good garden item in hot weather. With careful cutting, plants produce for months.

**FORDHOOK GIANT**—(60 days from seed) Extremely large, heavily savoyed leaves of glossy, very dark green color. Ribs broad, thick, white.

## CHICORY

1 oz. to 80 ft. of row; 4 lbs. per acre

**RADICHETTA** (Ciccoria Catalogna)—(55 days from seed) Rapid growing annual, leaves and seed stalks edible.

**RADICHETTA** (Quarantine)—(80 days from seed) Sown late for early Winter use. Plants dwarf but produce heavy crop of tender shoots.

**SAN PASQUALE** (All Seasons)—(70 days from seed) Light green tender finely cut leaves, bunched so as to blanch at the center.

**WITLOOF (FRENCH ENDIVE)**—(95 days) A very choice winter salad forced in hotbeds from roots previously grown outdoors; producing solid oblong heads blanched ivory white.

## CHIVES

1 oz. to 150 ft.

Small hardy perennial ready for use in 85 days, resembling the onion in appearance and growing in clusters about 6 in. tall. The young leaves give a mild onion flavor to sausage, salads and various dishes.

## COLLARDS

Broadcast 1 lb. to 2 lbs. per acre—1 oz. to 300 ft. row

**CABBAGE OR HEADING**—(120 days from seed) Produces compact plants 1½ to 2 ft. high. Large clusters of leaves often show a tendency to form a head.

**GEORGIA**—(100 days from seed) Hardy, original collard strain, non-heading, 2 to 3 ft. plants forming cluster of tender leaves at top.

**MORRIS IMPROVED HEADING**—(120 days from seed) Has definite heading tendency, good color.

**VATES**—(100 days from seed)—Emerald green glossy leaves, otherwise somewhat similar to Georgia.

## CORN SALAD

1 oz. to 20 sq. ft.; 6 lbs. per acre

**LARGE SEEDED DUTCH**—(50 days) used as a salad. Sown in the early spring in rows 1 foot apart, it is fit to use in 6 or 8 weeks. If wanted in early spring, sow in September and cover with straw as soon as cold weather sets in. Can also be grown in protected cold frames and used any time during the winter.

## CRESS

1 oz. to 150 ft. of row; 3 lbs. per acre

Dwarf annual and perennial plants of mild to pungent flavor used for salads and garnishing. They require moist soils, thrive during the cool seasons in well shaded places where an ample supply of moisture is constantly available.

**GARDEN (CURLED OR PEPPER)**—(45 days) Dwarf 8 inch compact fast growing annual having finely curled deep green foliage. Used for garnishing and salads.

**AMERICAN UPLAND**—(45 days) Dwarf plant with notched oval leaves resembling true water cress. Of a mild flavor, grown in this area as a fall and winter crop. Sown in July or August; requires a fertile moist soil.

**TRUE WATER**—(100 days) Hardy perennial with long stems and small thick divided leaves having a sharp pungent flavor. Thrives along moist banks or in soil covered with shallow fresh water.

### PRICES

CHARD (Swiss)	Pkt.	Oz.	¼ Lb.	Lb.
Common Green — (Spinach Beet)	\$.15	\$.25	\$.50	\$1.50
Fordhook Giant	.15	.25	.50	1.50
CHICORY				
Witloof (French Endive)	.15	.30	.85	2.50
Italian (Ciccoria Catalogna)	.15	.30	1.00	3.50
CHIVES	.15	.75	2.25	
CORN SALAD				
Large Dutch	.15	.25	.75	2.50
COLLARDS				
Cabbage Collards	.15	.25	.50	1.50
Georgia or Southern	.15	.25	.50	1.50
Morris Improved Heading	.15	.40	1.15	3.50
New Hardy Short Stem	.15	.30	.85	2.50
Vates	.15	.25	.75	2.00
CRESS				
American Upland	.15	.25	.75	2.00
Garden (Curled or Pepper)	.15	.25	.75	2.00
True Water	.15	.85	2.60	8.00



# CORN

## TABLE VARIETIES

1 quart to 200 hills; 1 peck per acre

Sugar Corn should not be planted until May, or when the ground is warm. For succession, plant about every two weeks until the last of July. As hybrids mature very uniformly they should be planted at intervals of a week or ten days to assure a continuous supply. All varieties may be either sown one inch deep in rows three to four feet apart, the seeds being placed about 8 inches apart in the rows, or they may be planted in hills at distances of three or four feet apart each way, allowing not more than 3 plants to a hill. The size of the variety and the richness of the soil should determine the distance of planting. Hybrid corn because of its deeper rooting character may be planted closer than open pollinated varieties. Cultivate frequently but shallow until the tassels appear.

### SPECIAL TRIAL OFFER

Three ½ pts. of any HYBRIDS listed below \$1.00.  
\$1.25 post paid.

**ARISTOGOLD BANTAM EVERGREEN**—(86 days) (Y) Ears 9 to 10 in. long, with 16 to 18 rows of Kernels, deep green husked.

**COUNTRY GENTLEMAN**—Ill. 15 Hybrid (85 days) (W) Ears 8 in. long. Noted for high ratio of first quality cut corn per ton.

**GOLDEN BEAUTY**—(Y) Extremely early therefore Stewart's Disease is not a factor. (69 days). All America selection. Developed by Mass. Agri. Expt. Sta. Small ears.

**GOLD RUSH**—(66 days) (Y) Ears 8½ inches long, 12 to 14 rows. Tight dark green husk. Large for such an early sort and fine quality.

**IOCHIEF**—(83 days) (Y) Ears 8½ inches long, 14 to 18 rows of deep yellow kernels. Ears large, attractive, frequently 2 per stalk.

**NARROW GRAIN EVERGREEN**—(14 x 11) (86 days) (W) 8 inch ears containing 18 to 20 rows of deep white narrow kernels. Exceptionally heavy yielder combined with quality and hardness.

**PROSPERITY**—(83 days) (Y) Bright green ears. 8½" long, 14 to 18 rowed, kernels bright yellow. A dependable cropper.

**STOWELL'S EVERGREEN HYBRID**—(86 days) (W) Ears 8½ inches long—14 to 18 rowed, having tight, heavy husks, very productive, fine quality.

## FIELD CORN

### Hybrid Yellow Varieties

**IOWA 939**—(90-100 days) Plants medium height, ears rough, medium long, 16 rows of reddish yellow grain. Yields well in average soils.

**GOLD LINE 378**—(115-120 days) Ears 10 to 12 in. having 20 rows of golden yellow kernels. The strong, sturdy fodder stays green while the ears mature making it an excellent silage variety.

**U.S. 13**—(100-110 days) Well adapted to this area and still used as the standard variety for comparing other hybrids. Ears are large, 20 to 22 rows of deep rich yellow medium soft grains. One of the highest yielding of all hybrids for both grain and silage.



Iochief

### PRICES

	½ Pt.	Pt.	Qt.	Pk.
Black Mexican	\$.25	\$.40	\$.75	\$4.00
Country Gentlemen				
(Shoe Peg)	.25	.40	.75	4.00
Early Evergreen	.25	.40	.75	4.00
Golden Bantam	.25	.40	.75	4.00
Improved Early Adam	.20	.30	.55	3.50
Stowell's Evergreen Ex.				
Selected	.25	.40	.75	4.00
Whipple's Early White	.25	.40	.75	4.00

### HYBRIDS

Aristogold	.40	.75	1.25	7.50
Carmelcross (80 da.)	.40	.60	1.15	6.00
Country Gentlemen (Ill.				
15)	.40	.75	1.25	7.50
Golden Beauty	.35	.75	1.25	7.50
Golden Cross Bantam (86)	.35	.60	1.15	5.50
Gold Rush	.40	.75	1.25	7.50
Iochief (83)	.40	.75	1.25	7.50
Narrow Grain Evergreen				
(14x11)	.40	.75	1.50	7.50
Prosperity	.40	.75	1.50	7.50
Seneca Beauty	.40	.75	1.25	7.50
Stowell's Evergreen Hy-				
brid	.35	.60	1.15	6.00
Supermarket	.45	.80	1.15	6.75

### FIELD CORN

### HYBRIDS

	Qt.	Pk.	Bu.
Gold Line #378	.50	3.00	10.00
Iowa 939 (Certified)	.50	3.00	9.50
Pfister #347	.70	4.20	12.50
U.S. 13 (Certified)	.50	3.00	9.50

### POP CORN

Purdue 31 Hybrid 60c lb.  
South American Giant 35c lb.



## CUCUMBER

1 oz. to 100 hills or 100 ft. row; 2 lbs. per acre

Plant 8 to 10 seeds in each hill, hills 4 ft. apart. When seedlings become well established, thin to 4 plants per hill.

Another method is to sow seed in rows, thinning plants to stand 12 in. apart in the row. For pickles, plant from first of June to first of August.

**MARKETER** (New Improved)—70 days Vines very vigorous and prolific; fruits very dark green, slightly tapered at ends. Notably uniform and attractive.

**ASHLEY**—(66 days) Fruits 8"x2¼" diameter. Downy Mildew resistant, dark green, tapering mostly at stem end. Developed by Clemson Agri. Expt. Sta.

**PALOMAR**—(64 days) Fruits 8" - 8½" long, 2¼" diameter, very dark, slightly tapered at both ends. Vines heavy and vigorous producing heavy early yield. Downy mildew resistant.



### PRICES

#### Cucumber

	Pkt.	Oz.	¼ Lb.	Lb.
A & C	\$.15	\$.25	\$.75	\$2.25
Ashley	.25	.35	1.00	3.50
Boston Pickling	.15	.25	.65	2.00
Gherkins or Burr	.15	.30	.90	3.00
Long Green Improved	.15	.25	.75	2.25
Marketer Improved 70 days)	.15	.25	.75	2.50
National Pickling	.15	.25	.65	2.00
Ohio MR 17 (60 days)	.15	.40	1.25	3.75
Palmetto	.15	.30	.90	3.00
Palomar	.15	.35	1.00	3.50
Santee	.15	.30	.90	3.00
Smoothie	.25	.50	1.50	5.00
Sure Crop Hybrid	.25	3.50	10.00	

## DANDELION

1 oz. to 200 ft.; 2 lbs. per acre

## DILL

**LONG ISLAND MAMMOTH**—(90 to 100 days) Sow in rows and thin out to stand 8 or 10 in. apart. We offer an excellent market garden strain.

## EGG PLANT

1 oz. will produce 1,000 plants



Florida High Bush

Sow in March in hotbeds, and transplant when 2 inches high to 4 inches apart. When the weather becomes settled, transplant into the open ground 3 feet apart each way. Work the ground deep, make it rich with well-rotted manure and hoe often.

## ENDIVE

1 oz. to 100 ft. of drill; 3 lbs. per acre

**FULL HEART BATAVIAN (ESCAROLLE)**—(90 days) The most widely used variety of Endive; an improved Broad Leaved Batavian with thicker and broader heads; matures slightly earlier, requiring only 90 days from sowing of seed to heading.

### PRICES

#### DANDELION

	Pkt.	Oz.	¼ Lb.	Lb.
Improved Broad-Leaf	\$.15	\$.90	\$3.00	\$10.00

#### DILL

Long Island Mammoth	.15	.25	.50	1.25
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#### EGG PLANT

Black Beauty	.15	.50	1.75	6.00
Florida High Bush	.15	.50	1.75	6.00
Fort Myers Market	.15	.50	1.75	6.00

#### ENDIVE

All Heart Cabbaging	.15	.30	.85	2.50
Full Heart Batavian	.15	.25	.65	1.75
Green Curled	.15	.25	.65	1.75

#### FENNEL

Florence	.20	.35	1.00	3.00
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#### HERBS

	Pkt.	Oz.	¼ Lb.	Lb.
Caraway	\$.15	\$.75	\$2.00	\$5.00
Marjoram, sweet	.15	.60	2.00	—
Sage	.25	.60	2.35	—
Summer Savory	.15	.60	2.00	—
Sweet Basil	.15	.50	1.50	4.50
Thyme	.25	1.25	4.50	—



## KALE

### Borecole Scotch Kale

1 oz. for 2,500 plants

Extensively grown in this section for marketing during the winter and early spring months, when other vegetables are scarce. Borecole should be grown like cabbage, the seed being sown from early spring to the middle of August. It is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply.

**BLUE CURLED SCOTCH**—(55 days) Hardy as Hardy Winter and having very curly dark blue-green leaves.

**CURLED PERFECTION**—(55 days) An improved type, specially rogued and developed from a privately held American stock. Well curled and of a wonderful dark green color; winters well and commands top prices.

**DWARF GREEN SCOTCH**—(55 days) This excellent sort is low spreading and compact in its nature of growth, forming a mass of leaves which are beautifully curled. The color is an attractive bright green and the quality is excellent.

**HARDY WINTER**—(60 days) This variety is one of the most salable and profitable sorts for either the home or market gardener. The plant attains a height of 18 inches and produces an abundance of beautiful light green leaves, which are densely curled and crimped. It is extremely hardy and has the additional advantage of putting forth a second crop of leaves after the first have been gathered or have fallen off.

**SUPERIOR EXTRA CURLED GREEN SCOTCH**—(60 days) The leaves of this variety are very much more curled than the Dwarf Green Scotch, and many more bushels per acre can be cut due to the extremely vigorous growth, which is characteristic of this variety. Nearly as hardy as Hardy Winter, and very popular with many of our customers.

## KALE (Siberian)

Broadcast, 2 to 3 lbs. per acre; 1 oz. to 200 ft. of drill.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use. For early spring use, sow broadcast in September. For later use sow in April or May.

**EXTRA CURLED LONG STANDING**—(65 days) An improvement on the well-known German Extra Curled Kale; beautifully curled, of strong, vigorous habit, perfectly hardy and slow-shooting to seed.

**EXTRA EARLY CURLED (640 ORIGINAL)**—(60 days) Ready for cutting earlier than others. Retains bright green foliage. Even in frosty weather does not turn purple.

**MANNS' NO. 640 (RESELECTED)**—(65 days) The longest standing of any Kale we know, beautifully curled.

**SPRING SMOOTH LEAF OR HANOVER SALAD**—(30 days) Quick-growing, very hardy smooth leaf sort, tender when young.

## KOHLRABI

1 oz. will produce 1,500 plants

This forms a bulb above the ground, and has a distinct fresh green delicious flavor. Sow in April in rows 18 inches apart, thinning out to 8 inches between the plants. Also grown as a fall crop by sowing August 1st.

**EARLY WHITE VIENNA**—(55 days) Excellent for forcing and of fine quality. The bulbs grow to the size of an apple when ready for use, and are a pale whitish-green. Globular, very light green; flesh clear white.

## LEEK

1 oz. to 150 yds. of drill; 4 lbs. per acre

Sow early in the spring in drills 1 inch deep and 12 inches apart, when about 6 inches high transplant into deep, rich soil, 5 inches apart; use a dibble and plant deeply, close to their leaves.

**GIANT MUSSELBURGH**—(150 days) Blanched portion long and white; leaves medium green. This type popular for local market, also for home garden use.

**MONSTROUS CARENTAN** (150 days) Of extra large size; leaves fan-shaped, dark green; the edible stem is 6 to 8 inches long and 3 inches in diameter.

**SPECIAL BIG NO. 7**—(150 days) Improved large variety with unusually long thick white stalk.

### PRICES

#### BORECOLE

	Pkt.	Oz.	¼ Lb.	Lb.
Blue Scotch Curled	.....\$ .15	\$.25	\$.75	\$2.00
Curled Perfection	......15	.25	.75	2.25
Dwarf Green Scotch	......15	.25	.75	2.00
Tall Curled Scotch	......15	.25	.75	2.00

#### KALE

Extra Curled Long Standing	......15	.25	.75	2.00
Manns' No. 640	......15	.35	.90	2.50
Siberian Kale (Extra Early)	......15	.25	.65	1.50
Spring Smooth Leaf (Hanover)	......10	.15	.25	.60
Hanover Late Seeding	......15	.25	.75	2.25

### PRICES

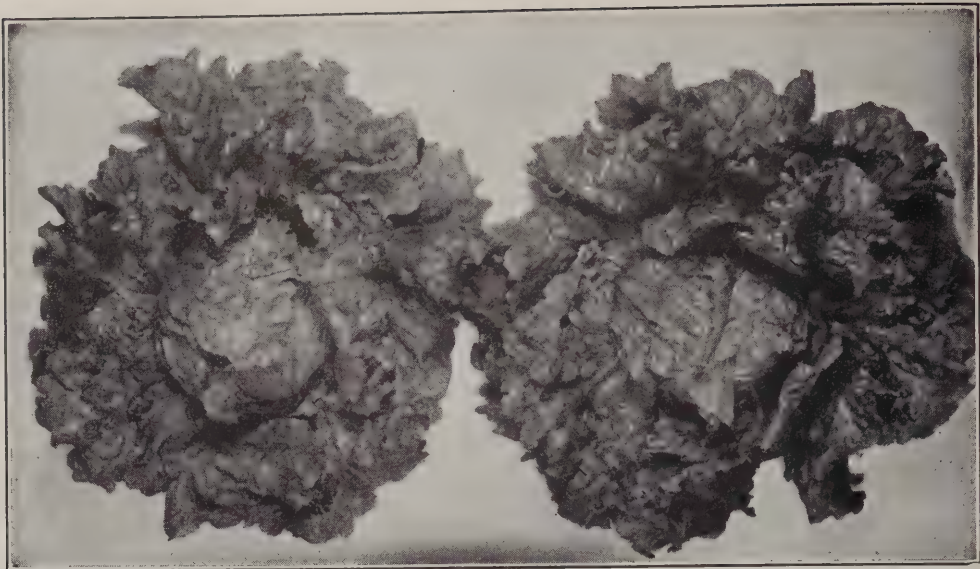
#### KOHLRABI

	Pkt.	Oz.	¼ Lb.	Lb.
Early White Vienna	.....\$ .15	\$.35	\$1.00	\$3.50

#### LEEK

Giant Musselburg	.....\$ .15	\$.45	\$1.50	\$5.00
Large American Flag	......15	.45	1.50	5.00
Monstrous Carentan	......15	.45	1.50	5.00
Special Big #7	......15	.60	2.00	6.00





## LETTUCE

1 oz. to 2,500 plants; 3 lbs. per acre

Days given represent time for growing marketable heads from date of sowing seed.

Lettuce to be at its best should be grown rapidly, hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For early crop sow in a seed-bed in September or October and protect through the winter with cold frames, which should be removed as soon as danger of severe freezing is past. Lettuce in the open ground will stand some freezing but is killed by prolonged frost or frequent freezing and thawing. The seed may also be sown in hotbeds in March, and the plants, if well hardened, may usually be set in the open ground in April, maturing a crop much earlier than complete open ground cultivation would produce. If, however, it is not convenient to get the plants started either in the fall or early spring in hotbeds, the seed may be sown in open ground from the middle of April until July, selecting varieties suitable for the season. Improved germination results when seed is treated in ICE WATER for 8 hrs. prior to planting.

The plants should stand 8 to 16 inches apart in the rows according to variety and the rows should be about 18 inches apart. Heading varieties particularly should be well spaced to afford plenty of air circulation which helps materially in preventing bolting to seed.

**BIBB**—(57 days) Finest quality home gardeners extra early head lettuce; forms small very dark green head. Must be grown to head very early in summer or very late as it readily bolts to seed in hot weather.

**IMPERIAL ICEBERG NO. 44**—(82 days) Developed in California by Dr. Jagger of the U. S. D. A. primarily as a sure heading, disease resistant variety for shipping to the eastern markets. Its adaptability to many various growing centers and a wide range of climatic conditions make it one of the most dependable and sure heading types of Iceberg for this section.

**IMPERIAL ICEBERG NO. 847**—(84 days) Black seeded strain grown successfully in the east and south for several years. Produces large size, solid, well rounded heads under conditions where other Iceberg types do not succeed.

**MAY KING**—(65 days) Extremely early, compact, forming very firm heads of medium size and excellent quality. Color light yellowish-green, tinged with reddish-brown when mature. Inner leaves blanch rich golden-yellow, very tender and buttery.

**PENNLAKE**—(77 days) Developed at Penn State College for an early, large, firm-heading type. Tipburn resistant and sure heading on both muck and upland soils.

**PREMIER GREAT LAKES**—(80 days) An All American winner for 1949. Upland variety with sure heading tendency and stands summer heat even better than original Great Lakes. Has broad fringed leaves forming well rounded, crisp, solid heads of excellent quality.

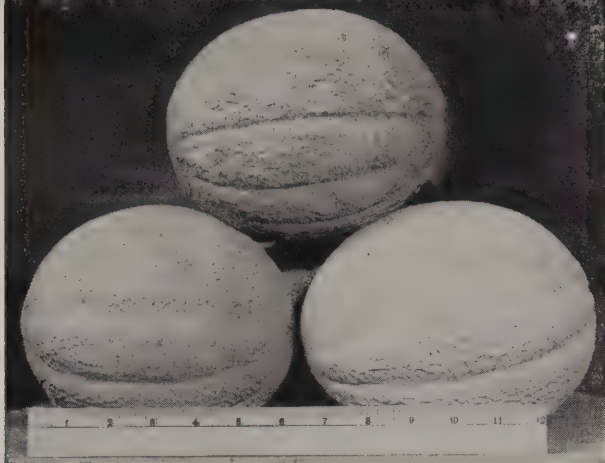
**SALAD BOWL**—Loose leaf variety, seems to stand sun very well, is fast and large grower, slow to bolt and of extreme high quality. Leaves are short and closely set hold their quality, tenderness and fine texture over a long period. Developed by Dr. Ross C. Thompson of the U. S. Dept. of Agriculture.

**WHITE BOSTON**—(75 days) We offer the Cornell No. 43 large, heavy, light green type. Entirely free from red edge and popular among market gardeners.

### PRICES

	Pkt.	Oz.	1/4 Lb.	Lb.
Bibb .....	\$.15	\$.35	\$1.00	\$3.50
Big Boston .....	.15	.25	.75	2.25
Cabbage Head .....	.15	.25	.75	2.25
Cos, or Romaine (White) .....	.15	.25	.65	1.75
Cos, Extra Dark Green .....	.15	.25	.65	1.75
Grand Rapids .....	.15	.25	.75	2.25
Great Lakes .....	.15	.50	1.65	5.00
Great Lakes Special (M. R.) .....	.15	.60	1.85	5.50
Great Lakes #360 .....	.15	.85	2.50	7.50
Iceberg .....	.15	.25	.75	2.50
Imperial #44 .....	.15	.30	.90	3.25
Cornell No. 456 .....	.15	.60	1.85	5.50
Imperial Iceberg No. 847 .....	.15	.30	.90	3.25
May King .....	.15	.25	.75	2.00
Oakleaf .....	.15	.30	.90	3.25
Pennlake .....	.15	.50	1.50	5.00
Premier Great Lakes .....	.15	.50	1.50	5.00
Salad Bowl .....	.25	.50	1.75	6.00
Slobolt .....	.15	.40	1.15	3.50
White Boston .....	.15	.25	.75	2.25





Pride of Wisconsin

## MUSTARD

1 oz. to 200 ft. of drill; 4 lbs. per acre

Sow the seed early in the spring thinly in rows about a foot apart. For fall use sow in August.

## MUSHROOMS

Anyone with a fair understanding of the cultural requirements can grow Mushrooms successfully in any climate and in any season where the following conditions obtain:

1. Good spawn, procured from a reliable source.
2. A properly prepared bed with reasonable protection against weather extremes.
3. A temperature not greatly exceeding 60° F. nor much lower than 50° F.
4. A fairly moist temperature avoiding the too frequent and direct application of water to the beds.
5. A gradual renewal of the air, avoiding draughts.

One brick will seed an area of 8 to 10 square feet. One quart bottle will seed an area of 35 to 40 square feet, depending on the size of piece planted. Full cultural directions free with purchase of spawn.

Bricks 50c ea; 10 bricks \$4.50, bottle spawn \$1.25 ea.

## WATERMELON

1 oz. for 30 hills; 3 or 4 lbs. per acre

Cultivate exactly as for Cantaloupe, except that the hills should be 8 to 10 feet apart.

## MUSKMELON

(CANTALOUPE)

1 oz. for 50 hills; 3 lbs. per acre

The most suitable soil for melons is a warm, sandy loam, well worked and enriched with rotted manure. After danger from frost is over, sow ten to twelve seeds to a hill, about 2 inches deep; the hills being six feet apart each way. When the plants have the second pair of leaves and danger from insects is past, thin out to four plants to a hill. Many large growers produce potted plants in hotbeds, thereby assuring an earlier crop to set out in May or earlier under Hotkaps. Cultivate frequently, deeply away from the plants and shallow close to them. When hoeing, remove the crust from around the plants and replace with fine, loose soil.

### PRICES

#### CANTALOUPE

	Pkt.	Oz.	¼ Lb.	Lb.
Bottomly .....	\$.15	\$.25	\$.75	\$2.50
Cornell Delicious .....	.15	.35	.95	2.85
Golden Delight .....	.15	.50	1.50	4.50
Hale's Best Jumbo .....	.15	.25	.65	2.00
Harvest Queen (W.R.) .....	.15	.35	.95	2.85
Hale's Best #45 .....	.15	.25	.65	2.00
Hearts of Gold .....	.15	.25	.65	2.00
Honey Dew .....	.15	.25	.75	2.50
Jasper .....	.15	.30	.85	2.50
Knight's Early Maryland .....	.15	.25	.75	2.50
Long John .....	.15	.30	.90	3.00
Pride of Wisconsin .....	.15	.25	.65	2.00
Rocky Ford Improved, Jr. ....	.15	.25	.85	2.75
Sugar Rock .....	.15	.25	.75	2.25

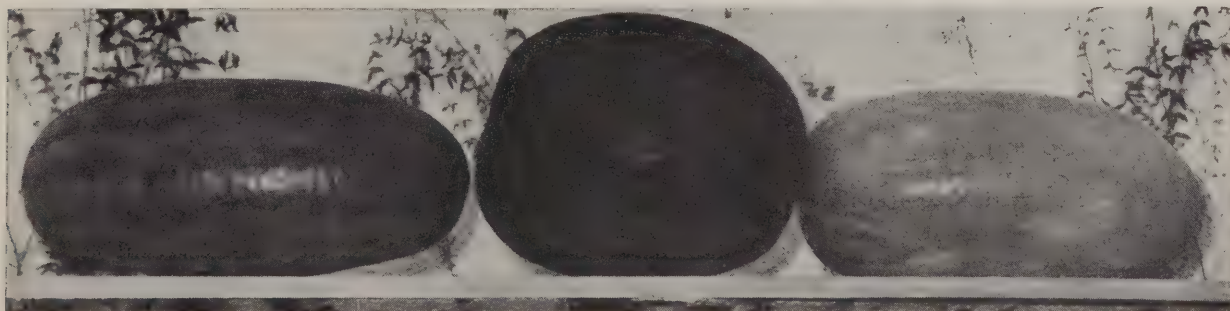
#### MUSTARD

	Pkt.	Oz.	¼ Lb.	Lb.
Fordhook Fancy .....	\$.15	\$.25	\$.60	\$1.75
Giant Southern Curled .....	.15	.25	.65	1.50
Tendergreen (Mustard Spinach) .....	.15	.25	.65	1.50

#### WATERMELON

Let Us Quote Larger Quantities

Blackstone .....	.25	.50	1.50	4.50
Charleston Gray (Cert) .....	.25	.35	1.00	3.50
Citron .....	.15	.25	.75	2.50
Congo .....	.15	.25	.75	2.50
Congo, Certified .....	.15	.30	.90	3.00
Dixie Queen W. R. ....	.15	.25	.85	2.75
Florida Giant .....	.15	.25	.60	1.75
Fairfax .....	.20	.35	1.00	3.50
Garrison (90 Days) W.R. ....	.15	.25	.75	2.50
Hawkesbury .....	.15	.25	.60	1.75
Icebox .....	.15	.30	.90	3.00
Kleckley's Sweet .....	.15	.20	.60	1.75
New Hampshire Midget .....	.15	.25	.75	2.50
Stone Mountain .....	.15	.25	.65	1.50
Tom Watson .....	.15	.25	.65	1.50
(Medicinal 50c per lb)				



Congo

Florida Giant

Charleston Gray



## ONIONS

To grow large bulbs 1 oz. to 100 ft. of drill; 4 to 5 lbs. per acre. To grow sets 10 oz. to 100 ft. of drill; 50 lbs. per acre.



White Silver Skin Onion

## ONION SETS

FINE QUALITY MARKET GARDENERS STOCK

Qt. 25c Pk. \$1.50

Subject to change. Postage Extra  
Let Us Quote Larger Quantities

### PRICES

#### ONIONS

	Pkt.	Oz.	¼ Lb.	Lb.
Crystal Wax	\$.15	\$.45	\$1.35	\$4.00
#6-13 Bunching	.20	.60	1.75	5.25
Danvers-Yellow Globe	.15	.30	1.00	3.50
Early Yellow Globe	.15	.55	1.65	5.00
Golden Globe	.15	.55	1.65	5.00
Southport White Globe	.15	.35	1.25	4.00
White Bunching	.15	.40	1.35	4.50
White Ebenezer	.15	.70	2.00	6.00
White Lisbon	.15	.55	1.65	5.00
White Queen	.15	.55	1.65	5.00
White Silver Skin	.15	.35	1.25	4.00
Yellow Sweet Spanish	.15	.35	1.25	4.00

## OKRA or GUMBO

1 oz. to 30 ft.; 10 lbs. per acre

Sow in drills during April and May. Thin plants to 12 inches apart and draw earth to the stems for support.

**EMERALD**—(55 days) Plants 4½ feet tall, vigorous pods, thick walled, 6 to 8 inches long and ¾ inches in diameter at center; slightly curved, dark green.

**DWARF GREEN LONGPOD**—(50-55 days) A distinct variety, growing about 14 inches high; very prolific.

## PARSLEY

1 oz. to 150 ft. of drill

Sow in rows 1 foot apart and 1 inch apart in the row. The seed is slow to germinate, and should be given the most favorable conditions. A deep, rich loamy soil is required. For winter use a few plants placed in a box in the cellar will give a supply.



Parsley grown in N. J., under Irrigation

**CHAMPION EXTRA DARK MOSS CURLED**—(70 days) The large leaves are very heavily crimped and curled. Very productive and most attractive, dark green color and fine mossy appearance.

**HAMBURG OR TURNIP-ROOTED**—(90 days) The large fleshy root, which resembles the root of a Parsnip, and is highly esteemed for flavoring soups, stews, etc.

**ITALIAN CELERY LEAVED**—Larger stalks and leaves than ordinary plain parsley. Milder and sweeter flavor.

**PARAMOUNT**—(85 days). Dwarf compact plants of rich deep green color. This is the most refined curled variety. Leaves more uniformly "tripled-curved" than older strains. Excellent for home garden as well as for market or forcing.

**PERFECTION**—(75 days) Deep emerald green, vigorous with finely curled leaves. Absolutely uniform. Rapid growing with larger and more upright plants having longer stems than Paramount.

**PLAIN or SINGLE**—(80 days). Standard variety of plain leaved parsley. Leaves dark green, deeply cut but not curled.

### PRICES

OKRA OR GUMBO	Pkt.	Oz.	¼ Lb.	Lb.
Clemson Spineless	\$.15	\$.25	\$.65	\$2.25
Dwarf Green Longpod	.10	.20	.60	1.75
Emerald	.10	.20	.60	1.75
Perkins Mammoth	.15	.20	.50	1.50
White Velvet (60 days)	.15	.20	.50	1.50

PARSLEY	Pkt.	Oz.	¼ Lb.	Lb.
Champion Extra Dark Moss Curled	\$.15	\$.25	\$.75	\$2.25
Italian Celery Leaved	.20	.30	.90	2.50
Paramount	.15	.25	.75	2.25
Perfection	.15	.25	.75	2.25
Plain (Single) 80 days	.15	.25	.75	2.25
Hamburg (Root)	.15	.25	.75	2.25

Let Us Quote Larger Quantities



## PEAS

*Qt. sows 200 ft. of row*

### First Early Smooth Varieties

60 lbs. per bu.

**ALASKAN, EX. EA. WILT RESIS.**—(57 days) Vine strong and vigorous, 2 to 2½ feet high, of a peculiar light green color, pods 3 to 3½ inches long, straight and blunt at the end. Seed round, blue, slightly pitted.

**EARLY BIRD**—(60 days) The most used and best extra early, large podded Dwarf now on the market.

**LONG-PODDED ALASKA**—(60 days) Equally as hardy as Extra Early Alaska and much larger. The vines usually grow three feet high and the crop will remain fresh a long time after picking.

### Wrinkled Varieties

**DWARF TELEPHONE**—(75 days) A second early, of robust but remarkably even growth. From 16 to 18 inches high. The stout plants are fairly loaded with large, bright green pods.

**FREEZONIAN**—(63 days) All American Winner. Improved Thomas Laxton type, 3½ in. dark green blunt pods, wilt resistant.

**GRADUS (PROSPERITY)**—(62 days) Produces long pointed pods, well filled and of fine table quality. Vines from 2½ to 3 feet in length. Considered one of the most desirable for the market garden or home use.

**LAXTONIAN**—(62 days) This is one of the finest dwarf early peas. The vines grow 18 to 20 inches high and produce an enormous crop of 4 in. dark green pointed pods.

**LITTLE MARVEL**—(62 days) An ideal home garden and early market variety, popular for years for its outstanding quality and yield. Vine: stocky, medium height. Pods: blunt, plump, dark green, 3 in. long.

**THOMAS LAXTON**—(62 days) One of the highest quality freezing and garden varieties. Pods blunt, dark green, 3½ in. long. Vine 2 ft., slim.

### Edible Podded Peas

**DWARF GREY SUGAR**—(62 days) Vines 24 in. bearing 2¾ in. light green-pointed pods with small gray peas.

\*Postage on peas: refer to chart on Page 1.

#### PRICES

	½ Pt.	Pt.	Qt.	Pk.
Alaska ex. Ea. W.R. ....	.20	\$.30	\$.55	\$3.00
Early Bird .....	.25	.40	.75	4.50
Long Podded Alaska .....	.25	.40	.75	4.00
Black Eyed Peas (100 days) .....	\$.20	\$.35	\$.65	\$3.50
Blue Bantam .....	.25	.45	.85	4.50
Dark Green Telephone .....	.25	.40	.75	4.50
Dwarf Grey Sugar .....	.30	.50	.95	5.00
Dwarf Telephone—W.R. ....	.25	.40	.75	4.00
Early Giant (66 Days) .....	.25	.40	.75	4.50
Early Wonder .....	.25	.40	.75	4.50
Freezonian .....	.25	.40	.75	4.00
Gradus (Prosperity) .....	.25	.40	.75	4.00
Laxtonian (Hundredfold) .....	.25	.40	.75	4.50
Laxton's Progress .....	.25	.40	.75	4.00
Marvel .....	.25	.40	.75	4.00
Thomas Laxton .....	.25	.40	.75	4.50
Wando .....	.30	.50	.95	4.50
World's Record (58 days) .....	.25	.40	.75	4.50

**WANDO**—(67 days) Heat, tolerant, very productive in hot weather. High quality midseason variety. Dwarf sturdy vines and blunt dark green pods 2½ to 3 inches long. Excellent quality for freezing. Vines 24 to 30 inches tall.

## PARSNIP

1 oz. to 150 ft., 4 lbs. per acre

Sow in early spring in deeply prepared well drained soil. Thin to stand 3 to 4 in. apart. It is sometimes sown late in the summer for early spring use.

Parsnips are well known as a delicious table vegetable but their value for the purpose of feeding cattle and stock is but little appreciated. The parsnip is rich in saccharine food which adds greatly to the richness of the milk when fed to cows. The roots can be left in the ground all winter and improve in quality by the continued freezing.

## PEANUTS

**VIRGINIA BUNCH**—(145 days) Earliest, most prolific and easiest cultivated variety. Lb., 50c; 10 lbs., \$4.50.

## PUMPKINS

1 oz. to 15 hills; 4 lbs. per acre

Sow in good soil in May, when the ground has become warm, in hills 8 to 10 feet apart each way, or in fields of corn about every fourth hill; always avoid planting near other vines, as they will hybridize.

**CUSHAW, OR CROOKNECK**—(110 days) Grown for pies and stock feeding. Fruits 2 feet in length, with long, solid neck. Flesh rich, creamy yellow, tender and of exceptionally fine flavor. Weight 15 to 25 lbs.

**KING OF MAMMOTHS**—(115 days) Enormous, deep yellow. Often weighs 75 to 100 lbs.

**SUGAR PIE PUMPKINS**—(115 days) Best of all Pumpkins for pies. Small to medium size, solid and fine grained, and a splendid keeper.

**SWEET POTATO**—(110 days) Excellent for pies, pear-shaped, creamy white, sweet and delicious; first-class keeper. Weight about 15 lbs.

#### PARSNIPS

	Pkt.	Oz.	¼ Lb.	Lb.
All American Hollow Crown .....	\$.15	\$.25	\$.65	\$1.50
Special New Market Garden strain .....	.15	.30	.85	2.50

#### PUMPKIN

Connecticut Field .....	.15	.25	.50	1.50
Cushaw or Crookneck Golden .....	.15	.25	.60	1.75
Cushaw Green Striped .....	.15	.25	.60	1.75
Kentucky Field .....	.15	.25	.60	1.75
King of Mammoths .....	.15	.25	.60	2.00
Sugar Pie Pumpkins .....	.15	.25	.60	1.75



# PEPPERS

1 oz. will produce 1,000 plants

6 to 8 weeks to produce plants

Peppers should be sown either indoors or in hotbeds early in April and transplanted to the permanent beds when about 3 inches high in two foot drills and two feet apart in the drills. The seed can also be sown in open ground when danger from frost is past but the crop will naturally be much later. Fertilizer or poultry manure well mixed with the soil when the plants are about 6 inches high will materially aid in the production of a big crop. USDA recommends Phygon or Arasan seed treatment.

## Sweet Varieties

**ALLBIG (Illinois F-5)**—(65 days) Sweet early variety developed at Univ. of Ill. for market and home use. Plants more compact than World Beater and bear fruit even during warm summer season. Fruits 5¼ inches long 3½ inch diameter, darker than World Beater.

**CALIFORNIA WONDER**—(72 days) The leading market garden and shipping variety. Large, smooth, extremely heavy, very mild, thick flesh. Excellent uniformity and high quality for any use. Sweet distinctive flavor. Fruits 4½" long—3½" through.

**CHINESE GIANT**—(85 days) This desirable variety is one of the largest sweet peppers ever offered. The flesh is quite thick, very mild and remarkably sweet.

**LIBERTY BELL**—(75 days) Fruit similar to California Wonder, but better shape than Yolo Wonder. Deep dark green color. Resistant to Tobacco Mosaic and shows tolerance to Cucumber Mosaic.

**NEAPOLITAN**—(62 days) Very early, prolific narrow variety grown for market and shipping. Very productive, upright fruits 4 in. long by 2 in. at widest. Flesh thin, mild, and sweet.

**PIMIENTO OR PERFECTION**—(75 days) A medium early, prolific, perfectly mild variety with extremely thick flesh. On account of its thick flesh it will hold up for a long time, and is an excellent sort for canning whole.



Yolo Wonder

**WONDER GIANT**—(74 days) Excellent, pure lined or uniform. Thick, sweet flesh. Recommended for market gardeners, good shipper and canner. Beautiful heavy peppers. Heavily productive. Fruit—4½" long—3¾" diameter, mostly 4 lobed, born upright with some pendant. Deep glossy green—deep scarlet when ripe.

**WORLD BEATER NO. 13**—(75 days) This splendid pepper is a cross between Chinese Giant and Ruby King, and combines the size of one and the earliness of the other. It is exceedingly mild, very large, four lobed and of good color. The flesh is very thick, making distant shipment possible. Mosaic resistant.

**YOLO WONDER**—(78 days) Excellent quality—strong resistance to mosaic. Fruits more blocky than California Wonder and brighter green—sweet, thick flesh. Plants very prolific.

## PRICES

	Pkt.	Oz.	¼ Lb.	Lb
Allbig (Ill. F-5)	\$.25	\$1.15	\$3.35	\$10.00
California Wonder	.15	.50	1.75	6.00
Chinese Giant	.15	.60	2.00	7.50
Cherry Red (Hot)	.15	.75	2.00	6.00
Chili, Small (Hot)	.15	.50	1.75	6.00
Floral Gem	.15	.60	2.00	7.50
Florida Giant	.15	.60	2.00	7.50
Half Long Cayenne	.15	.80	2.50	7.50
Hungarian Wax	.15	.60	2.00	6.00
Long Red Cayenne (Hot)	.15	.50	1.75	6.00
Liberty Bell	.35	1.25	4.50	15.00
Neapolitan	.15	.60	2.00	7.50
Pimiento or Perfection	.15	.60	2.00	7.50
Sunnybrook or Cheese	.15	.60	2.00	6.00
Sweet Banana	.15	.80	2.50	7.50
Wonder Giant	.25	1.15	3.50	13.50
World Beater NJ #13	.15	.50	1.75	5.50
Yolo Wonder	.25	.60	2.00	7.00

## Hot Varieties

**HALF-LONG CAYENNE**—(70 days) A leading variety for drying similar to Long Cayenne in shape, tapering to a point.

**HUNGARIAN WAX**—(65 days) Fruit 6 to 7 inches long—2 inches in diameter at shoulder, tapered to a blunt tip. Clear yellow becoming bright red at maturity. Flesh thick and pungent.

**LONG RED CAYENNE**—(68 days) Leading variety for pickling, canning, and drying. Very pungent. Fruits 5 in. long, ½ inch diameter. Deep green becoming bright red at maturity.

**CHILI, SMALL**—(84 days) Plant 18 inches tall, bearing upright fruits. Fruits 2½ inches long ⅜" diameter. Flesh thin and pungent. Color turns deep red.

**RED CHERRY**—(80 days) Fruits nearly round. 1¼ inches in diameter. Abundantly borne on tall vines. Fruits deep red and very hot.



## Always Easy Parking

## ESTABLISHED 1887

BALTIMORE 2, MD.

## ENSOR AND FORREST STREETS—AT BELAIR MARKET

(No tax on Vegetable Seeds or Fertilizers)

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Name \_\_\_\_\_

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Post Office State

Please Forward Via \_\_\_\_\_

(Express, Freight or Parcel Post)

Enclosed \_\_\_\_\_ For \$ \_\_\_\_\_

(Check, Money Order or Stamps)

We give no warranty, express or implied, as to the productiveness of any seeds we sell and will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of the seed.

[illegible]

WANTED—Names and addresses of your acquaintances who should receive our Annual Catalog, Price Lists, etc. We will appreciate your kindness and so will they.—Thank you.

NAMES	POST OFFICE	STATE



[illegible]



# RADISH

1 oz. for 100 ft. of drill; 10 lbs. per acre.



Extra Early Scarlet Globe Outdoor Forcing

Light, sandy soil, rich in organic matter is essential to produce crisp and tender radishes. For early crop sow the seed as soon as the ground can be worked, in drills 6 to 10 inches apart, covering the seed half an inch deep. When the plants are well started, thin out to one inch apart in the drills. Frequent watering in dry weather is very beneficial as high quality is largely dependent upon rapid growth. For a continuous supply, successive plantings should be made at intervals of 10 days to two weeks, selecting varieties best suited for the season.

## Early Varieties

**CHERRY BELLE**—(29 days) A beautiful bright round variety with short tops for bagging or for sowing in warm weather for bunching. Another all American winner.

**COMET**—(24 days) Distinctly a round or ball shaped sort of longkeeping quality. Has outstanding brilliant crimson color, with extra good tops for bunching. An All-American winner.

**EXTRA EARLY SCARLET GLOBE**—(23 days Outdoor Forcing) The popular commercial variety often called "Button Radish." Roots olive shaped, bright scarlet, flesh white and crisp. By selecting the most desirable type of this variety based on market demands we offer a strain having correct uniform shape and color plus exceptionally good tops for bunching.

**GREENHOUSE SCARLET GLOBE**—(22 days) This strain has been especially bred to meet the very exacting requirements of greenhouse cultivation, producing quickly a highly marketable crop of uniformly shaped radishes of fine quality.

**SPARKLER (ROUND WHITE TIPPED)**—(25 days) One of the most attractive for early planting outdoors. Color very deep scarlet with 1/3 white at the tip; flesh white and of the best quality.

**WHITE ICICLE RADISH**—(27 days) Planted in spring the young Radishes are ready for use in 25 to 27 days from sowing and their long, slender form and pure paper-white skin are most attractive when bunched for market. Flesh: clear white, brittle and of a mild flavor.

## Summer Varieties

**CRIMSON GIANT**—(28 days) A variety combining earliness and extra size. It does not become pithy even when fully twice as large in diameter and a week older. Crimson-Carmine; turnip-shaped; flesh firm, crisp and tender.

**LONG SCARLET**—(28 days) This is the standard extra early long scarlet market variety, short top, long scarlet roots; crisp, fine flavor.

**WHITE STRASBURG**—(40 days) A very desirable summer variety. Skin and flesh both white. Of excellent quality and a quick grower.

## Winter Varieties

Plant between Aug. 15th and Sept. 30th

**LONG BLACK SPANISH**—(55 days) Roots tapered cylindrical 7 to 10 in. long and about 2 1/4 in. in diameter. Skin black, flesh white, exceptionally good keeper, strong pungent flavor.

**ROUND BLACK SPANISH**—(55 days) Characteristics similar to Long Black Spanish, except that it grows top-shaped, 3 to 4 in. in diameter.

**WHITE CHINESE OR CELESTIAL**—(55 days) Large, stump-rooted Radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition, mild in flavor, brittle, and never woody.

## PRICES

	Pkt.	Oz.	1/4 Lb.	Lb.
Champion	\$.25	\$.40	\$.75	\$2.25
Cherry Belle	.15	.20	.40	1.15
Comet	.15	.20	.40	1.15
Crimson Giant	.15	.20	.40	1.15
Long Black Spanish	.15	.20	.40	1.25
Long Scarlet	.15	.20	.40	1.00
Round Black Spanish	.15	.20	.40	1.15
Scarlet Globe	.15	.20	.40	1.00
Scarlet Globe #8	.15	.20	.40	1.15
Scarlet Turnip	.15	.20	.40	1.15
Sparkler (White Tipped)	.15	.20	.40	1.00
Tidewater Globe	.15	.20	.40	1.15
White Chinese or Celestial	.15	.20	.40	1.25
White Icicle	.15	.20	.40	1.00
White Strasburg	.15	.20	.40	1.15

Let Us Quote Larger Quantities



## RAPE

**DWARF ESSEX**—Leaves smooth, quick growing may be cut for greens in three weeks after seeding. Sow any time from Spring through Fall. 1 oz. 10c; ¼ lb. 20c; lb. 55c Postpaid.

## RHUBARB

Sow in April or May, in drills 1 foot apart; when 3 or 4 inches high, thin out in rows 6 to 10 inches apart. Transplant the ensuing fall or spring in rich soil. Set out the roots 3 to 4 feet apart each way; the following spring it will be fit to use.

**CRIMSON WINTER**—Crimson stems of the finest color and quality, very early and continuing bearing over a long period.

**RHUBARB ROOTS**—25c ea.; \$2.75 doz.

## SALSIFY

OR OYSTER PLANT

1 oz. for 50 feet of drill

Slow growing, hardy; requires 150 to 180 days; better if frosted.

Requires a well enriched, mellow soil, which, previous to sowing the seeds, should be stirred to a depth of 18 inches. Sow early in the spring in drills 15 inches apart; cover the seed with fine soil 1¼ inches in depth, and when the plants are strong enough, thin out to 6 inches apart. As the leaves resemble grass, be careful they are not mistaken for it when weeding.

**MAMMOTH SANDWICH ISLAND**—A new and improved type, producing roots of nearly double the size and weight of the old varieties; mild and delicately flavored.

## SORREL

BROAD LEAVED (60 days)

A hardy plant grown for its leaves, which are used as boiling "greens" or salad. Seed should be sown thinly in drills early in spring. When well started thin out to stand 4 to 6 inches apart in the row. The leaves can be gathered for use at any time after the plants are well started in growth, and the roots will continue to produce a further supply. The plant is entirely hardy, and, starting into growth early the following spring, will afford a large supply of fine "greens" quite early.

### PRICES

	Pkt.	Oz.	¼ Lb.	Lb.
<b>RHUBARB</b>				
Crimson Winter .....	\$.15	\$.50	\$1.50	\$5.00
<b>SALSIFY</b>				
Mammoth Sandwich Island .....	.15	.35	1.25	4.00
<b>SORRELL</b>				
Broad Leaf .....	.15	.35	1.15	3.50
Narrow Leaf .....	.15	.50	1.50	5.00

## SPINACH

1 oz. to 100 ft. of drill; 12 to 15 lbs. per acre

Spinach is rich in vitamins A and C. For late spring and early summer use, sow the seed during February, March and April in drills one foot to 20 inches apart, one-half to one inch deep. When the plants are well started, thin out to 4 to 6 inches apart.

For winter and early spring use, sow either in drills or broadcast during August, September and October.

Number of days indicated shows time required from sowing to earliest cutting date. Long Standing varieties remain in marketable condition 10 days to 2 weeks longer.

**AMERICA**—(50 days) A long standing heavy yielding, slow growing, warm weather variety with heavy thick, glossy dark green leaves, densely crumpled and savoyed. Plant averages 7 in. tall by 12 in. across at maturity. Won Silver Medal in All America trials.

**RESELECTED BLOOMSDALE SAVOY**—(40 days) For either fall or late winter sowing, a truly reselected strain developed by a Holland Plant Breeder for uniformly curled large heavy plants. Fast growing vigorous variety.

**EXTRA DARK GREEN SAVOY**—(40 days) About two days later than Reselected, but plants are larger, less liable to bolt to seed, more heavily crumpled and of more upright growth. The very dark green color, however, is its chief advantage and in making the selections for this deep color and plant breeder has also improved the strain in its savoyed characteristics and absolute freedom from smooth leaved plants.

**EARLY LONG STANDING SAVOY**—(42 days) Nearly as early as Reselected Savoy but has the very valuable advantage of standing in perfect condition, without bolting to seed, 10 to 14 days longer. This feature is worth thousands of dollars to spinach growers, for with this variety it is possible to market the crop when it is convenient and advantageous for the grower to do so. Many severe losses have been incurred because cutters were not available, weather conditions unfavorable, or prices were too low, but Early Long Standing will wait for cutters, for weather, and for prices.

**DIXIE MARKET (New)**—(38 days) Mosaic and downy mildew resistant. Not immune. Expected to become an important variety for Fall. Grows rapidly and bolts quickly in warm weather. Plants are dark green, compact, and upright making it suitable for mechanical harvesting. Released jointly by the U.S.D.A. and the Texas Agri. Expt. Sta.

**HYBRID No. 7**—(40 days) Leaves thin and rather flattened—not savoyed. Quick growing variety for Fall use. Not recommended for Spring or Summer crops because it bolts to seed very easily. Resistant to blight and blue-mold. Heavy yielding variety developed by the U.S.D.A.



Extra Dark Green Savoy



# SPINACH



Field of Early Long Standing Savoy for Seed

**OLD DOMINION** Blight resistant—(40 days) Developed at the Virginia Experimental Station as a later seeding yellows resistant variety by crossing King of Denmark and Virginia Savoy. The plants are large, dark green, heavily crumpled and fast growing. It is one of the most hardy varieties for wintering over and therefore is well suited for either an early fall crop or for fall sowing to be cut in early spring.

**SPECIAL SUMMER SAVOY**—(50 days) Stands warm weather without bolting to seed better than any other Savoy leaved type. A great improvement even on Bloomsdale Long Standing. Very dark green and heavily crumpled leaves. Very slow grower and should be sown so as to mature during warm weather.

**VIRGINIA BLIGHT RESISTANT**—(39 days) A strain of Bloomsdale Savoy especially developed by the Virginia Experimental Station for the purpose of resisting the disease commonly called yellows. Used extensively in the vicinity of Norfolk and in other sections where blight is encountered. It matures very quickly and is therefore preferred for early fall and early spring sowing.

**NEW ZEALAND**—(55 days) (Tetragonia Expansa) Not related to regular spinaches but forming larger spreading plants producing fleshy brittle tips and leaves which are used as spinach. Excellent for culture during hot, dry weather. Of delightful flavor and practically ever-bearing. Can be picked several times during season.



America

## LET US QUOTE LARGE QUANTITIES PRICES

	Pkt.	Oz.	<sup>1</sup> / <sub>4</sub> Lb.	Lb.
America (50 days) .....	\$.15	\$.20	\$.35	\$1.00
Dixie Market (38 days) ..	.15	.20	.35	1.00
Extra Dark Green				
(40 days) .....	.15	.20	.35	.70
Hybrid No. 7 (40 days) ..	.15	.25	.50	1.25
Long Standing (45 days) ..	.15	.20	.35	.70
Old Dominion (40 days) ..	.15	.20	.35	.70
Reselected (40 days) .....	.15	.20	.35	.70
Summer Savoy (50 days) ..	.15	.20	.35	.70
Virginia B.E. (39 days) ..	.15	.20	.35	.70
New Zealand (55 days) ..	.15	.20	.40	1.25



## SQUASH

1 oz. of bush sorts to 40 hills; large seeded 15 hills.  
2 lbs. of bush sorts to acre; large seeded 3 to 4 to acre.

Squashes, like other vines, are partial to a light, dry, rich soil. Plant bush varieties 4 ft. apart and the running varieties in hills 7 to 10 feet apart each way; thin out to three plants in a hill. Cultivate frequently until the vines commence running, after which do not work the soil deeply.

### Summer Varieties

**CASERTA**—(62 days) An early bush type producing fruits a week earlier than Cocozelle. Early and highly productive young fruits grayish-green, striped with darker green. Average 14 to 16 inches when mature.

**COCOZELLE EXTRA LONG ITALIAN**—(65 days) Produces fruit alternately striped dark and light green in the edible stage becoming dark green at maturity, about 20 inches long and 3 to 4 inches in diameter; very straight.

**EARLY GOLDEN SUMMER CROOKNECK**—(52 days) A superior strain of summer crookneck, heavily warted, of a very deep orange color, 9 inches long, of excellent quality and highly productive.

**GREEN TINTED BUSH SCALLOP**—(50 days) Preferred by many market gardeners by reason of true decided light green color, even when fully matured. Retains green color longer than most varieties.

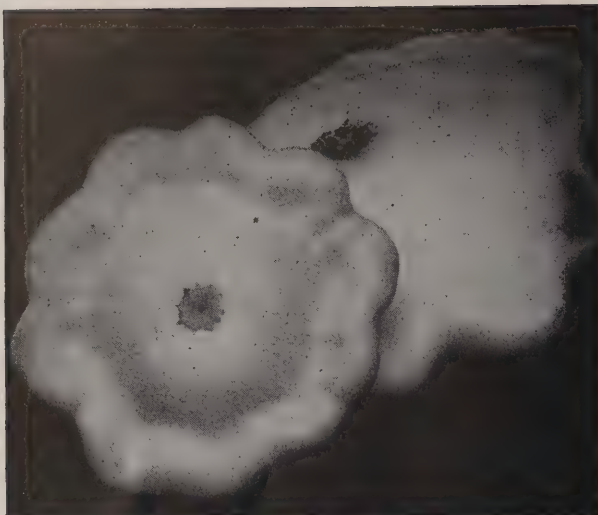
### Winter Varieties

**BOSTON MARROW (OR SQUASH PUMPKIN)**—(95 to 100 days) The fall and winter variety most widely used for canning and for pies. Fruits oval, pointed, deep orange color, weight 6 to 8 lbs. Very productive.

**BOSTON MARROW A&C SPECIAL**—Same as Boston Marrow but having deeper orange color.

**GREEN WARTED HUBBARD**—(110 days) Densely warted, much larger than Golden Hubbard; flesh exceptionally thick, deep orange, dry and of excellent quality.

**TABLE QUEEN OR ACORN (NEW MAMMOTH TYPE)**—(80 days) Dark green, thin shelled, smooth, ribbed fruits with yellow flesh; favorite variety for baking. Fruits pointed acorn shape 5½ in. long 4 in. through.

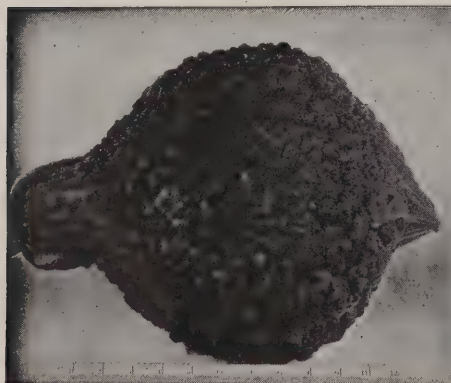


Green Tinted Bush Squash

#### PRICES

	Pkt.	Oz.	¼ Lb.	Lb.
Acorn or Table				
Queen (Mammoth) .....	\$.15	\$.25	\$.60	\$1.75
Blue Hubbard .....	.15	.25	.60	2.00
Boston Marrow .....	.15	.25	.60	1.50
Boston Marrow A & C .....	.15	.35	.85	2.50
Butternut .....	.15	.25	.75	2.25
Cocozelle, Extra Long				
Italian .....	.15	.20	.50	1.50
Cocozelle, Vining .....	.15	.25	.60	1.75
Early Golden Summer				
Crookneck .....	.15	.25	.60	1.50
Early Prolific				
Straightneck .....	.15	.25	.60	1.50
Golden Hubbard .....	.15	.25	.60	2.00
Green Tinted Bush				
Scallop .....	.15	.25	.60	1.50
Green Warted				
Hubbard .....	.15	.25	.60	2.00
Jersey White Bush				
Scallop .....	.15	.25	.60	1.50
Zucchini (New All				
American) .....	.15	.25	.60	2.00

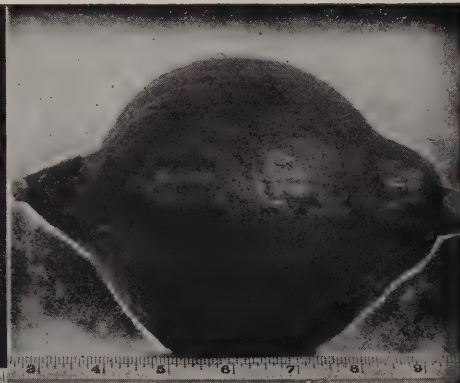
Let Us Quote Larger Quantities



Green Warted Hubbard



Golden Summer Crookneck



Boston Marrow



# TOMATOES

1 oz. to 2,000 plants; ¼ lb. per acre.

All our tomato seeds are grown from stocks, exclusively for seed purposes, by the originators, experienced growers and experts. We are fully convinced of the merit of all varieties before offering them in our catalog, and can strongly recommend our strains as being absolutely reliable.

For early, the seed should be sown in hotbeds during February or the first week in March, in drills 5 inches apart and half an inch deep. Later sowing may be made until the last of April. When the plants are 3 or 4 inches high they should be set out 4 or 5 inches apart in another hotbed or cold frame, or removed into small pots allowing a single plant to the pot. Expose to the air as much as possible to harden. Water freely at time of transplanting, and shelter from the sun a few days until the plants are established. Set out May 1st to 10th according to weather (or 3 weeks earlier if protected with Hotkaps) spacing 3 to 5 ft. apart.

**IMPROVED ADVANCE**—(64 days) An extra early, large tomato of high quality, round or slightly flattened shape, and exceptionally smooth for such an early variety. As early and hardy as Earliana and yielding more fruit both in the first and subsequent pickings. It is more shapely, more free from cracks and shows less green about the stem than other extra early sorts. With improved Advance the grower can produce a crop which will stand superior in appearance and quality, in competition with the other extra earlies and command the fancy prices of an early market.

## EARLY GIANT HYBRID

We are sure if you will try this tomato in comparison with any hybrid or other variety, you will use it for most of your crop. We have seen it out-class other excellent popular hybrids in earliness, size, quality and yield. Be sure to grow some this season

Pkt. 50 seeds 50c; 5 pkts \$2.00

¼ oz. \$11.00; Oz. \$37.50

FOR MAIN CROP GROW HYBRID P-9

## PRICES

	Pkt.	Oz.	¼ Lb.	Lb.
Beef Steak	\$.15	\$1.00	\$3.00	...
Burpees Big Boy Pkt. 30 seeds 50c; 3 pkts.				\$1.35
Giant Hybrid	¼ oz. \$8.50;	Oz. \$30.00		
Century	.15	1.15	3.50	10.00
Chesapeake	.25	1.00	3.00	10.00
Earliana	.15	.70	2.15	6.50
Early Giant Hybrid	¼ oz. \$6.00;	Oz. \$37.50		
Garden State, Improved	.25	1.00	3.00	10.00
Greater Baltimore (Ind.)	.15	.50	1.75	6.00
Hybrid P-9	.50	32.50	97.50	
Improved Advance	.15	1.15	3.50	10.00
Jubilee Golden	.25	1.00	---	---
Manalucie	.25	1.00	3.00	12.00
Marglobe (Certified)	.15	.50	1.75	6.50
#43	.25	1.00	3.00	12.00
Oxheart	.25	2.15	4.90	15.00
Ponderosa	.15	1.00	3.00	10.00
Pritchards Scarlet				
Topper	.15	.60	2.00	6.50
Queen's Certified	.15	1.00	3.00	10.00
Rutgers (Certified)	.15	.50	1.75	6.00
Scarlet Dawn	.15	.50	1.50	5.00
Sioux	.15	1.00	2.85	8.50
Southland	.15	.65	2.00	6.50
Stokesdale (Certified)	.15	1.15	3.50	10.00
Stone (Improved)	.15	.50	1.75	6.00
Tree	.25	4.00	---	---
Urbana	.15	1.15	3.50	10.00
Valiant	.15	.60	2.00	7.50
<b>SMALL FRUITED</b>				
Pear Shaped Yellow	.15	1.00	3.50	---
Red Cherry	.15	1.00	2.00	---
Red Plum	.15	.60	1.75	---
San Marzano				
(Paste) Red	.15	1.25	3.75	---
Yellow Plum	.15	1.00	3.50	---

Let us quote larger quantities



Early Giant Hybrid



## RUTABAGAS

1 oz. to 150 feet of row; 1 lb. per acre.

Rutabagas require about four weeks longer to mature than ordinary varieties of turnips, but are more solid, of firmer flesh and therefore keep later into the spring.

**NEW CANADIAN**—(90-100 days, 5 in. dia.) Our strain of this excellent variety has become a favorite because of its hardy and productive nature. The flesh is sweet and solid, excellent for table use or stock feeding.

**SPECIAL MARKET GARDENERS**—(90-100 days, 5 in. dia.) Grown for a number of years in the North and held very closely by private individuals, the seed of this variety has always been extremely difficult to procure in a true and reliable type and most profitable. After years of searching and checking in our trial grounds, we have found the correct strain and offer it with every assurance that it is the best Rutabaga to grow in this section.

## TURNIPS

1 oz. to 150 feet of row; 1 lb. per acre.

Being primarily a cool weather vegetable, turnips thrive best when planted in early spring or in the fall. For spring crop sow the seed early in April, while for fall and winter use, plantings should be made from July to August. Sow in rows not less than 18 inches apart and one-half to three-quarters of an inch deep. A very popular method, however, is to broadcast the seed between rows of corn or in the cultivated orchard.

**AUTUMN KING**—(75 days, 4½ in. to 6 in. dia.) A high quality stock feed variety, also very popular with Market Gardeners because of its excellent table quality when young. Roots smooth, globular, clear yellow with bronzy green tinged top, flesh pale yellowship white, fine grained, sweet and tender.

**DOUBLE DUTY**—(30-40 days) Roots approximately 3 x 2 in. tops 18 in. tall, strap-leaved fast growing heavily



Turnip—Autumn King

set, practically aphid resistant and of excellent quality. Grown chiefly for its abundance of tops, surpassing Seven Top in production and quality. Also forms a pure white semi-globe root, which is sweet and tender.

**PURPLE TOP WHITE GLOBE**—Smith's strain. (55-60 days, 3 in. to 6 in. dia.) This excellent turnip is decidedly the most popular variety and more extensively grown than any other. The roots are globular, very handsome and of superior quality; either for table use or stock feeding purposes. It is a heavy producer, early, or rapid growth, and one of the best for winter storage.

**GOLDEN BALL**—(60-65 days, 3½ in. dia.) One of the best yellow varieties for general crop; flesh firm and sweet; splendid for table or stock.

**SEVEN TOP**—This variety planted exclusively for the green tops which are produced very abundantly. They are excellent for table use and for stock grazing.

**TURNIP GREENS**—See Broccoli.



Purple Top White Globe Turnip

### PRICES

#### RUTABAGA

	Pkt.	Oz.	¼ Lb.	Lb.
Neckless Purple Top	\$.15	\$.20	\$.35	\$1.00
New Canadian	.15	.30	1.00	2.85
Special Market				
Gardeners	.15	.55	1.65	5.00
Waltham (Yellow				
Globe)	.15	.30	1.00	3.50

#### TURNIP

Autumn King	.15	.25	.35	1.00
Double Duty	.15	.25	.35	1.00
Early Snowball	.15	.25	.35	1.00
Golden Ball (Orange				
Jelly)	.15	.25	.35	1.00
Mammoth Shogoin	.15	.25	.35	1.00
Purple Top White				
Globe	.15	.20	.35	1.00
Pomeranian White Globe	.15	.25	.40	1.00
Seven Top	.15	.20	.35	1.00
Yellow Aberdeen				
Purple Top	.15	.20	.35	1.00



## VEGETABLE PLANTS

**PLEASE NOTE:** All plants are quoted f.o.b. Baltimore.

Let us quote larger quantities

On parcel post orders, add 25c per 100.

### CABBAGE PLANTS, FROST-PROOF.

(Ready in February to May.)

\$1.00 per 100.

### CAULIFLOWER PLANTS. (Ready in May.)

25c per doz.; \$1.50 per 100.

### BORECOLE PLANTS. (Ready in July.)

\$1.50 per 100.

### CELERY PLANTS. (Ready in July.)

\$1.50 per 100.

### EGG PLANTS. (Ready in May.)

25c per dozen; \$1.25 per 100.

### LETTUCE PLANTS. (Ready in March and April.)

\$1.00 per 100

### PEPPER PLANTS. (Ready in May and June.)

25c per doz.; \$1.50 per 100.

### SWEET POTATO PLANTS. (Ready in May and June.)

\$1.25 per 100.

### TOMATO PLANTS. Hotbed Grown. (Ready in April.)

Southern field-grown. \$1.25 per 100.

Let us quote larger quantities

## ASPARAGUS ROOTS

Mary Washington. From one to two years may be saved by planting Roots instead of seed. Choice, 2-year-old roots. 25 for 85c; \$2.75 per 100; \$20.00 per 1000.

## HORSERADISH ROOTS

Maliner Kren. (Bohemian.)

Doz. 50c; 100, \$3.00

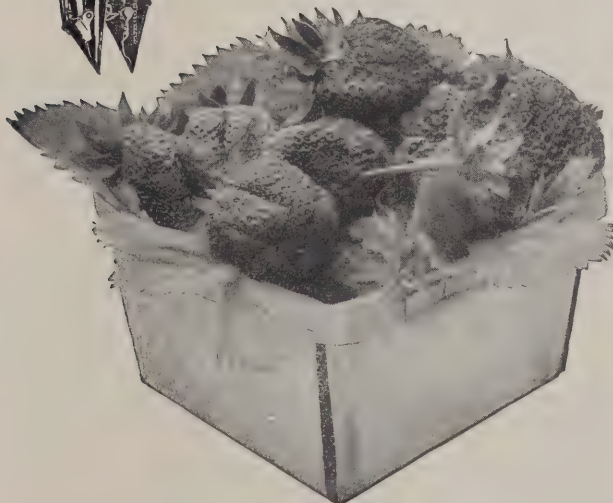
## RHUBARB ROOTS

Victoria 25c each; \$2.75 per doz.

## PLANT SETTER

No. 15—Sets, waters, and covers plants in one operation. Eliminates damaging plants. Automatic, positive and accurate operation, rigid construction, no rust, removable water spout. \$8.50.

Lynchburg Setter \$5.65.



## FRUIT TREES

**APPLES.** 5-6 ft. (Bare Root) \$2.50 each; \$20.00 per 10.

Select Deluxe wrapped 4-5 ft. \$2.75

Yellow Delicious, Double Red Delicious, Winesap, York, Red Rome, Grimes Golden, Jonathan, Yellow Transparent, Hyslop Crab, etc.

5-N-1-Deluxe 5-6 ft. \$4.85.

**PEARS.** 5-6 ft. \$2.50 each. Bartlett, Kieffer, Seckel.

Select Deluxe wrapped 4-5 ft. \$2.75

**PEACHES.** 5-6 ft. \$2.25 each. Belle of Georgia, Carman, Crawford's Early, Crawford's Late, Elberta, J. H. Hale, Shippers Late.

Select Deluxe wrapped 4-5 ft. \$2.75

**CHERRIES.** 9/16 to 11/16 cal.

**SOUR**—Early Richmond, English Morello, Montmorency 2.75.

**SWEET**—\$3.00 Bing, Black Tartarian, Napoleon, Yellow Spanish. Deluxe wrapped Tartarian \$3.50

**PLUMS.** 5 to 7 ft. \$2.50 each. Abundance, Burbank, Red June. Deluxe wrapped 4-5 ft. \$2.75

### DWARF FRUIT TREES

**DWARF APPLES.** 3-4 ft. Deluxe. \$5.25. Baldwin, Delicious Red, McIntosh.

**DWARF PEARS.** 3-4 ft. Deluxe Bartlett. \$4.50.

## GRAPE VINES (2 yr. No. 1)

**CONCORD.** Blue. **CACO.** Red. **NIAGARA.** White. 65c ea., 10 for \$4.50.

## SMALL FRUITS & BERRIES

**BLACKBERRIES.** Alfred, Eldorado.

10, \$2.75; 100, \$14.00.

**RASPBERRIES.** Cumberland—black; Latham—red; Indian Summer—red, ever-bearing. 10, \$2.75; 100, \$15.00.

**BLUEBERRIES.** 2 yr. 12-18 in. Cabot, Concord, Jersey, Rancocas, Rubel, \$1.40 ea.; 10, \$13.25.

**BOYSENBERRIES.** Thornless. 10, \$2.50; 100, \$12.00.

### TRANSPLANTONE

For all plants and trees. No set-back from transplanting, insurance against replanting and an aid to earlier production. ½ oz. pkt., 25c; 3 oz., \$1.00; 1b., \$4.00.

### FRUITONE

The hormone spray for stopping premature drop of fruit, flowers and leaves. 2/5 oz., 25c; 2 oz., \$1.00; 12 oz., \$5.00.

## STRAWBERRY PLANTS

MARCH 1st to MAY 10th

We can supply fresh, strong, healthy plants of all the leading varieties in any quantity. Following is a partial list of the most popular sorts for planting in the vicinity of Baltimore.

Fairfax-Premier Stelemaster. Early

Big Joe-Catskill. Midseason

Tennessee Beauty. Late.

25 for \$1.50; 100 for \$4.00.

Everbearing-Streamliner. 25, \$2.75; 100 \$7.00.

### BERRY BOXES

	100
Pints .....	\$2.75
Quarts .....	2.25
2 qt. Tills .....	5.00
3 qt. Tills .....	5.50

(Not Mailable)

Let us  
quote  
quantity  
price.





# Manns' Superior Farm Seeds

Variety	Lbs. per Bu.	Sow—Lbs. per Acre	Date of Sowing	Fertilizer Requirements per Acre	Uses	
Alfalfa	60	15-20	August or April	400 lbs. or more 4-12-4 at seeding. For sandy soils increase potash. Top dress with 0-14-14 or 0-20-20. Heavy user of lime.	Hay, soil improvement, pasture.	Inoculation important, sow broadcast on firm seed bed. Harvest when basal shoots are 2 in. high. Do not cut late in fall.
Barley	48	72-98	About Oct. 1st	Lime moderately helpful. 300 to 400 lbs. 4-12-8 at seeding. Top dress in spring.	Stock feed, malt, break-fast foods, flour, early spring grazing.	Does best on well drained loam or clay soils. Seed should be treated against smut and the harvested crop protected from weevil.
Bent Grass	---	10 (3 lbs. per 1000 sq. ft.)	March or Sept.	Requires acid forming plant food. Injured by lime.	Lawns and putting greens or pasture on acid soils.	Does not yield as much hay as Red Top. Needs plenty of moisture. Thrives only on acid soils.
Blue Grass Kentucky	14 to 25	30-40	Late summer early spring	On pastures—300 lbs. 10-10-10. For new seeding, 400 lbs. 5-10-5. Lime helpful applied 50 lbs. per 1000 sq. ft. about every 5 years.	Permanent pastures, lawns and fairways.	Best results when seeded in mixtures as it requires about 3 years to establish a sod. Gives good early grazing, languishes in late summer but flourishes again in fall. Thrives best on well drained heavy soil, rich in organic matter and all fertilizing elements.
Blue Grass Canada	14 to 20	15 in mixtures	Late summer early spring	Same as Kentucky Blue but adapted to thinner soils.	Pasture with other perennial varieties.	Darker blue than Kentucky Blue, produces running root-stocks and forms dense sod. Leaves short. Best variety for stiff clay soils or poor fertility.
Buckwheat	48	36-60	May 15 to July 15	150 to 300 lbs. 4-12-8 heavy phosphorus and potash feeder. Best on moderately acid soil.	Flour, stock and poultry feed, bees, summer cover and green manure crop.	Likes cool, moist climate, a poor land crop. Harvest between time and first seed fully formed and the time they mature.
Corn Field	56	14	May July	Broadcast 500 lbs. 10-10-10 per acre before planting. Side dress when 40 days old with 200 lbs. nitrate of soda.	Grain, ensilage and hogging down.	Harvest when kernels well glazed and dented, shuck and bottom leaves dry and upper leaves $\frac{1}{4}$ to $\frac{1}{2}$ green. For ensilage harvest in early glaze stage, shucks yellow.
Clover Alsike	60	5-8	Aug.-Sept. Feb.-Apr.	200 to 400 lbs. 0-14-14 or 0-20-20. Responds readily to lime. Top dress annually.	Hay, pasture, soil improvement.	Better on wet, poor or acid soils than any other clover. Inoculation helpful.
Clover Crimson	60	15	August	Responds to lime but not very sensitive to acid. 400 lbs. 0-14-14 at seeding.	Green manure, and to some extent for hay and pasture winter annual.	Best suited to coastal plain soils but not to wet soils. Commonly sown at last working of corn or on small grain stubble. If not making sufficient growth, supply nitrogen fertilizer. Graze same if growth is too rank.
Clover Ladino	60	2	March April or August	200 to 400 lbs. 0-14-14.	Pasture and hay.	For pasture sow with orchard or alta fescue. Thrives 4 to 8 years.
Clover Red	60	10-15	March April or August	200 to 400 lbs. 0-14-14 or 0-20-20 $\frac{1}{2}$ to 1 ton hydrated lime is beneficial.	Primarily a forage crop. Largely used in hay mixtures but frequently sown by itself for hay.	For hay, cut when just past full bloom stage and handle to save as many leaves as possible. May be expected to yield 1 to 3 tons per acre.
Clover Sweet (Blenheim)	60	10-15	March April	300 lbs. of 0-20-20. High lime requirement, not less than 1600 lbs. hydrated.	Pasture hay, soil improvement, honey plant, and in pasture mixtures.	Grows well on poor soil (except sands) provided lime and inoculation are supplied. Sow on grain in March or April and harrow in or sow on frozen ground.
Clover White Dutch	60	5-8	Spring or late summer	500 lbs. of 0-14-14 annually as a top dressing. Some potash on sandy soil.	Pasture, furnishes early grazing.	Use about 2 lbs. per acre in pasture mixture. Tolerant to acid soils but responds to lime.
Cowpeas	60	1 $\frac{1}{2}$ to 2 bu.	May 15th July 15	300 lbs. of 0-14-14 and add potash for sandy soils. Lime not necessary but beneficial.	Black-eye, for human food; other varieties for hay, soil improvement and pasture.	Must be protected from weevil. Will grow on poor soils but does best on sandy loam. Harvest for hay when most of the pods are full grown and a few are ripe. Racks are a help in curing as it cures very slowly.
Fescue Chewings	14	30 (3 lbs. per 1000 sq. ft.)	March April August Sept.	Complete plant food—abundant nitrogen. Lime not necessary. 400 lbs. 5-10-5 or 10-10-10.	Lawns principally; also as pasture.	Withstand more shade than most grasses, especially suited to sandy soils. Leaves bright green, creeps by underground stems.
Fescue Meadow (English Blue-Grass)	24	20-30	March May August Sept.	300 lbs. 5-10-5 or 10-10-10.	Hay and pasture mixtures, gives early spring and late fall grazing.	Adapted to practically all but sandy soils. Does as well as any grass on wet soils. Harvest (Hay) as it comes into bloom. Yields of two tons per acre are not exceptional.
Leopedeza (Korean Annual)	25	25-30	February May	200 to 300 lbs. 0-14-14 per acre Lime not necessary but responds readily.	Hay, pasture and soil improvement.	For hay sow on fertile moist land. If second growth allowed to go to seed, Korean will reseed itself.



Variety	Lbs. per Bu.	Sow—Lbs. per Acre	Date of Sowing	Fertilizer Requirements per Acre	Uses	
Millet Golden	50	25-30	May to July	Responds to 200 lbs. 0-14-14 or 0-20-20. Lime unnecessary.	Mainly as a "catch" hay crop.	Requires at least 60 days from seeding to maturity. Sow broadcast and cover lightly. Cut hay just after blooming. Has about same feeding value as timothy but may become injurious if used as a continuous ration for horses.
Oats Winter Spring	32	2 to 2½ bu.	Winter Sept. 15 Spring Feb.-Mar.	200 to 400 lbs. 5-10-10 at seeding. Topdress as growth begins in spring where straw is likely to be too short, with 200 to 300 lbs. 5-10-5.	Chiefly as grain for horses and other live stock; cut for hay and also used for human food.	Well drained moderately rich soil is best. Harvest grain in hard dough stage; for hay cut in early milk stage. Fall sown oats mature 2 to 3 weeks earlier than spring oats.
Orchard Grass	14	14 to 25	March to May August to October	400 lbs. 5-10-5 or 300 lbs. 5-10-10 for fall application or 10-10-10 for spring application.	Hay and pasture.	Long-lived deep rooted perennial bunch grass. Does best on heavy soils such as clays and clay loams. Cut in bloom stage, as it quickly becomes woody after blooming. Serves best when sown in mixtures with red clover, alsike, tall meadow oat grass.
Rape Dwarf Kasek	56	6-10	Mar.-Apr. Aug.-Sept.	Heavy feeder and responds to manure and fertilizer. (10-10-10). Requires lime for best results.	Pasture for hogs and sheep.	Thrives on rich, moist loamy soil.
Red Top Grass	32	5-10	August-Sept.	Seems to do better on acid or "sour" soils.	Hay and pasture.	A perennial grass with a creeping habit of growth making a coarse loose turf. For hay harvest a little before or during full bloom. Suited to wet soils.
Rye	56	1 to 1½ bu.	August-November	At seeding 400 lbs. 5-10-5. Top dress in spring when growth begins. Not necessary but helps some. Manure.	Grain, winter and spring pasture, soiling and as cover crop. (Usually with winter vetch.)	Does better than wheat, on poor soils. Suitable to any well drained soil.
Rye Grass Domestic Italian	24	30-40	Early Fall	Usual Grass requirements.	Annual hay crop, temporary pasture or in lawns for a quick covering.	Not an annual but little of it lives more than one year. Grows rapidly and in bunches. Fall seeding usually makes a good crop of hay by June. More drought resistant than Perennial Rye Grass.
Rye Grass Perennial	20	30	Feb.-May Aug.-Oct.	Complete plant food. 500 lbs. 5-10-5 or 5-10-10.	Very similar to above.	More persistent than Domestic Rye Grass.
Sorghum	50	Drill 8-10 Broadcast 60-75	May-July	150 to 400 lbs. 5-10-5 at planting, top dress (or side dress if in rows) with 100 to 200 lbs. nitrogen fertilizer when 40 days old.	Syrup, fodder, hay, soiling and silage.	Any well drained corn or wheat land is suitable. Is heavy feeder and hard on land. For syrup or silage cut when seeds are in hard dough stage. When pastured or fed green there is danger of poisoning to live stock.
Soy Beans	60	Drilled 45-60 Broadcast 60-90	May 15th to July 15th	300 lbs. 0-14-14 or 0-20-20 fertilizer. Lime not necessary, but helps especially on heavy soils.	Hay, green manure, hogging off silage and seed.	Responds well to inoculation. Plant very shallow (about 1 in.) and if crust forms on land before they come up, break it with a harrow. For hay, cut when lower leaves begin to turn yellow and pods about half filled.
Sudan Grass	35	15-30	May July	200 to 300 lbs. 10-10-10.	Catch hay crop, soiling silage and grazing.	Does well on any soil except those that are cold and wet, good with cowpeas or soybeans. Cut hay just after it is beginning to head. Drought resistant and produces well in dry seasons.
Tall Meadow Oat Grass	11	30-40	Mar.-Apr. Aug.-Sept.	Responds to soil improvement and fertilizer. 200 to 300 lbs. 10-10-10.	Hay and pasture, of most value in a mixture of Red Clover, Alsike and Orchard Grass.	One of the best poor land grasses and especially adapted to well drained sandy soil. Do not like shade. Very drought resistant, perennial bunch type variety. Cut for hay about the time of blooming.
Timothy	45	—	Mar.-Apr. Aug.-Oct.	400 lbs. 5-10-5 except where it follows a well fertilized grain crop. Lime helps and should always be applied when clover is sown with timothy. If land is poor top dress with 100 lbs. 10-10-10 when spring growth begins.	Primarily for hay. Does not stand grazing well.	Semi-bunch growth. Adapted to heavy soils such as clays and loams. Usually seeded in mixture with sapling clover, or with wheat in the fall and the clover on the wheat in spring. Cut hay when in full bloom or slightly after.
Vetch Winter	60	20-40 with 1 bu. Rye	Aug.-Oct.	200-400 lbs. 0-20-20, add potash on sandy soils. Responds to lime but will grow on fairly acid soil.	Hay, pasture and soil improvement.	Best annual winter legume cover crop. Adapted to most any well drained soil. Inoculation necessary.
Wheat	60	1 to 1½ bu.	Oct.	200-400 lbs. 0-14-14 at seeding, additional superphosphate on better soils. Top dress in spring where straw is likely to be too short. Responds to use of lime in rotation.	Human food, hay or cover crop.	Does best on heavy loams of good fertility. Seed should be treated. Harvest when stalk is brown and grain in dough stage.

## FIELD SEED PRICES

These quotations are based on market at time catalog goes to press and will be maintained as far into the season as possible. Buyers of large quantities are requested to write for firm prices stating quantities, as market fluctuations may permit lower prices. Mail orders will be filled at prices prevailing date order is received and any overpayment will be refunded. We are offering only strong germinating, new crop seed, with as low weed content as economically possible. Prices quoted cash, f.o.b. Baltimore, bags included on full bag lots; bags charged extra on smaller quantities.

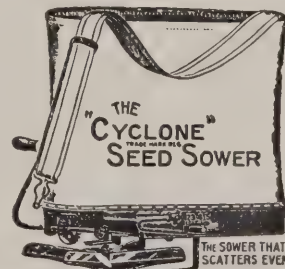
Prices F.O.B. Baltimore	Lb. Per lb.	10-24 lbs. Per lb.	25 lbs.-Lots Per lb.	Bag Lots Per lb.
Alfalfa: Kansas Verified	.75	.55	.45	
Blue Grass: Kentucky	.95	.90	.85	
Clovers: Alsike	.75	.60	.50	
Crimson	.50	.45	.40	
Ladino (Certified)	.70	.65	.60	
Red (Mid-West Verified)	.75	.60	.55	
Sweet	.40	.35	.30	
White Dutch	1.15	.90	.80	
Wild White-New Zealand	1.35	1.10	.90	
Fescues: Alta	.45	.40	.30	
Chewings	.85	.75	.65	
Creeping Red	.85	.85	.65	
Meadow (English Bluegrass)	.40	.35	.30	
Lespedeza: Korean	.35	.30	.20	
Oats: Spring (Clinton Cert.)		Let Us Quote		
Orchard Grass	.40	.35	.30	
Poa Trivialis	.90	.75	.60	
Red Top Grass	.75	.60	.45	
Rye Grass: Italian-Domestic	.20	.17	.15	
Perennial	.35	.30	.20	
Sorghum: Amber	.20	.19	.17	
Milo	.15	.13	.12	
Soy Beans		Let Us Quote		
Tall Meadow Oat Grass	.60	.50	.40	
Timothy	.30	.25	.22	

LET US QUOTE SPECIAL PRICES ON LARGER QUANTITIES

## MANNS' PERMANENT PASTURE MIXTURE

22% CLOVERS  
62% Perennial Grasses  
Only 16% Domestic Rye Grass

Contains re-cleaned seed of high vitality in ten nutritious varieties properly proportioned to give continuous pasture from early spring until late fall, quickly becoming permanently established. Sow 20 lbs. per acre. (Low Lands—sow 17 lbs. plus 3 lbs. Red Top.) Lb., 60c; 20 lbs., \$9.60; 100 lbs., \$44.50.



Cyclone illustrated \$1.40



# MANNS SUPERIOR FLOWER SEEDS FINEST AMERICAN AND IMPORTED STRAINS



Practical tests with the Sudbury Soil Test Kit will show the acidity of soil and any possible deficiency in nitrogen, phosphorus, and potash. Each kit is accompanied by complete instructions and tables of plant needs.

**2 MINUTE ACIDITY KIT**—Tests for acidity only. Complete with instructions and charts .....\$1.98

**HOME GARDEN MODEL** (as illustrated)—Contains enough soil testing solutions to make 20 individual tests. ....\$3.98

**POPULAR GARDEN MODEL**—Makes 50 individual tests for nitrogen, phosphorus, potash and acidity. Cased in handsome sturdy imitation leather. ....\$6.98

**HORTICULTURAL**—In permanent metal case. Contains sufficient chemical for 60 individual tests for nitrogen, phosphorus, potash and acidity. Case contains test tube rack, extra test tubes, special glass funnels, color charts and a supply of filter paper. ....\$15.95

**DELUXE**—Widely used by large growers, nurseries and government departments. Makes 200 individual tests for nitrogen, phosphorus, potash and acidity. In handsome steel carrying case with complete instructions. ....\$29.95

**TESTING FLUID** for refill. Specify whether for nitrogen, phosphorus, potash or acidity. 2 oz., \$1.00; 6 oz., \$2.00.

## ACID OR ALKALINE PREFERENCES

(Letters refer to degree of acidity in chart below)

### VEGETABLES, GRAINS, GRASSES, ETC.

Alfalfa .....	A	Cucumber .....	B	Plums .....	D
Asparagus .....	A	Currants .....	C	Potatoes .....	D
Barley .....	A	Eggplant .....	B	Pumpkin .....	D
Beans .....	C	Endive .....	B	Radish .....	B
Beets .....	C	Goosberry .....	C	Raspberries .....	B
Bent Grass .....	D	Grapes .....	D	Red Clover .....	B
Blue Berries .....	E	Kale .....	E	Rhubarb .....	B
Blue Grass .....	A	Laurel .....	E	Rye .....	C
Broccoli .....	B	Leek .....	B	Spinach .....	B
Cabbage .....	A	Lettuce .....	A	Squash .....	C
Carrots .....	A	Muskmelons .....	B	Strawberries .....	C
Cauliflower .....	A	Oats .....	C	Tobacco .....	C
Celery .....	A	Onions .....	A	Tomato .....	C
Chicory .....	B	Parsley .....	A	Turnip .....	C
Corn .....	B	Parsnips .....	D	Rutabaga .....	C
Clover .....	A	Peas .....	B	Watermelon .....	B
Cowpeas .....	C	Peppers .....	C	Wheat .....	A
Cranberries .....	E				

### FLOWERS

Azaleas .....	E	Forget Me Not .....	A	Narcissus .....	B
Anemone .....	B	Fuchsia .....	B	Nasturtium .....	A
Aster .....	B	Gardenia .....	E	Orchid .....	D
Begonia .....	B	Genista .....	A	Pansy .....	E
Bleeding Heart .....	C	Geranium .....	A	Peony .....	B
Bouvardia .....	C	Gerbera .....	A	Primula .....	B
Calendula .....	A	Gladiolus .....	B	Poinsettia .....	B
Candy-tuft .....	B	Godetia .....	B	Petunia .....	A
Canna .....	B	Heather .....	D	Phlox .....	C
Carnation .....	B	Heliotrope .....	A	Poppy .....	B
Centaurea .....	B	Holly .....	E	Rhododendron .....	C
Cineraria .....	A	Hyacinth .....	B	Rose .....	B
Chrysanthemum .....	B	Hydrangea Blue .....	E	St. Paulia .....	B
Clarkia .....	B	Hydrangea Pink .....	C	Salpiglossis .....	B
Clematis .....	A	Iris .....	C	Scabiosa .....	B
Columbine .....	B	Lady Slipper .....	E	Schizanthus .....	B
Cosmos .....	B	Larkspur .....	B	Snapdragon .....	B
Cyclamen .....	C	Lilac .....	B	Stocks .....	B
Dahlia .....	B	Lily .....	C	Swainsonia .....	A
Delphinium .....	C	Lupine .....	C	Sweet Peas .....	A
Didiscus .....	B	Marigold .....	B	Tulips .....	B
Easter Lily .....	C	Mignonette .....	B	Violet .....	B
Euphorbia .....	C	Morning Glory .....	A	Wisteria .....	B
Feverfew .....	B	Myosotis .....	B	Yucca .....	B
Ferns .....	C			Zinnia .....	B

4pH	5pH	6pH	6½	7pH	7½	8pH
E	D	C	B	A		
Acid				Alkaline		
Neutral						

B, C, D and E indicate degrees of acidity from 7 pH, which is neutral, to 4 pH which is extremely acid. "A" indicates a slightly alkaline condition.—(1000 lbs. Hydrate Lime per acre will change a sandy loam from pH 5 to pH 6.)

## MOIST PLACES

- x Heliotrope
- Mimulus
- x Viola
- x Wallflower

## DRY PLACES

- x Aster
- California Poppy
- x Coreopsis
- x Dianthus
- Dimorphotheca
- x Gypsophila, Paniculata
- x Helianthus
- x Iris
- Mesembryanthemum
- Mimosa
- x Papaver, Nudicaule
- Phlox, Annual
- x Phlox, Hardy
- x Statice, Latifolium

## CUT FLOWERS

- Ageratum
- Arctotis
- Asters
- Babysbreath
- Calendula
- Clarkia
- Cornflower
- Cosmos
- Dianthus
- Gaillardia
- Globe Amaranth
- Helichrysum
- Gypsophila
- Larkspur
- Marigold, African
- Mignonette
- Nasturtium
- Nigella
- Phlox, Drummondii
- Salpiglossis
- Scabiosa
- Schizanthus
- Snapdragon
- Statice
- Stocks
- Zinnia

## PARTIAL SHADE

- Alyssum, Sweet
- x Anchusa Italica
- x Anemone
- Antirrhinum
- x Aster, Hardy
- x Candytuft, Iberis
- Centaurea
- China-Aster
- Clarkia
- x Foxglove or Digitalis
- x Hibiscus, Moschata
- x Lathyrus
- Lupinus
- Myosotis, Forget-me-not
- Nicotiana
- Pansy
- Petunia
- x Primula, English Cowslip
- x Rudbeckia
- Schizanthus
- x Violas

## EVERLASTINGS

- Globe Amaranth
- Helichrysum
- Linaria
- Statice

## TALL VARIETIES

- Amaranthus, Caudatus
- x Campanula, Pyramidalis
- x Coreopsis
- Cosmos
- x Dahlia
- x Digitalis
- x Hollyhock
- Marigold, African
- Nicotiana
- Ricinus

## WINDOW BOXES

- Ageratum
- Alyssum
- Begonia
- Centaurea
- Lobelia
- Nasturtium
- Pansy
- Petunia
- Phlox
- Portulaca
- Salvia Splendens
- Thunbergia
- Vinca
- Zinnia, Lilliput

## POOR SOIL

- Alyssum, Sweet
- Amaranthus
- Balsam
- California Poppy
- Calliopsis
- Cornflower
- Four-O'Clock
- Marigold
- Nasturtium
- Poppy
- Portulaca

## BORDER AND EDGING

- Ageratum
- Alyssum, Annual
- x Alyssum, Saxatile
- x Arabis, Alpina
- x Bellis Perennis
- Calendula
- x Campanula, Carpatia
- Candytuft
- Centaurea
- x Cerastium
- x Dianthus, Barbatus
- x Iberis, Sempervirens
- Lobelia
- Nasturtiums
- Marigold
- x Nierembergia
- Pansy
- x Papaver, Nudicaule
- Petunia
- x Phlox, Subulata
- Portulaca
- x Sedum



# Annual Flower Seeds

The ease of cultivation and the quickly effective results obtained from Annuals make them indispensable, as they are adaptable to an almost endless variety of arrangement.

Even in perennial borders, beds and rock gardens, annuals are very essential to bridge the span between periods of bloom of the perennials and to give desired color effects which are possible only with annuals. Many varieties can be started indoors early and transplanted giving continuous bloom from early summer until frost. Some sorts are very easily grown in late summer to produce plants for the sun-parlor or conservatory where they will blossom during the winter.

For very vigorous young plants in early spring the following may be sown outdoors in November: Ageratum, Alyssum, Baby's Breath, Calendula, Calliopsis, Candytuft, Clarkia, Cornflower, Cosmos, Cynoglossum, Dianthus, Larkspur, Nigelia, Shirley Poppies, Snapdragons and Sweet Peas.

Annuals bloom more profusely than biennials or perennials, but it is advisable to cut the flowers before going to seed so that the plants continue to bloom freely.

For Variety, Color, Fragrance, Economy Sow Annuals

## ANNUAL FLOWER GARDEN MIXTURE

2 to 3 ft. tall. Pkt., 10c; oz. 65c; ¼ lb., \$2.00.

### AGERATUM

Splendid for bedding or borders, covered from June until frost with a mass of flowers of a tufted appearance.

**DWARF COMPACTUM MIDGET BLUE.**

Pkt., 15c; ½ oz., \$1.00.

**SEMI-DWARF BLUE PERFECTION.**

Pkt., 15c; ¼ oz., 70c.



Crego Aster

### ALYSSUM

**LITTLE GEM.** In bloom six weeks after sowing seed. Very erect and dwarf, white, height 4 inches. Pkt., 15c; ½ oz. 75c.

**ROYAL CARPET.** Purple, 2 to 3 in. tall but spreading to 10 in. wide. Pkt., 15c; ⅛ oz., 85c; ¼ oz., \$1.30.

**PROCUMBENS SNOW-CLOTH.** Compact mass of pure white flowers. 3-4 inches high by 8 inches wide. Pkt., 15c; oz. \$1.00.

### AMARANTHUS

Useful in borders among shrubs, or in centers of large beds. Thrives best in a warm, sunny location and a soil that is not too rich but contains an ample supply of lime. Blooms June to frost.

**CAUDATUS.** (Love Lies Bleeding.) Plants of erect growth 2½ feet high producing numerous feather sprays of rich crimson color. Pkt., 15c; ¼ oz., 25c.

**MOLTEN FIRE.** (Summer Poinsettia) 3 feet tall; easily grown, leaves dark bronze, top of plant brilliant Poinsettia red. Pkt., 15c; ¼ oz., 70c.

### ARCTOTIS (Blue-Eyed African Daisy)

**GEANDIS.** White petals tinged lilac with centers steel blue. Good for cutting, June to October, 2 feet tall. Pkt., 15c; ⅛ oz., 75c.

### ASTERS (Wilt Resistant)

The varieties listed represent the finest of the early, midseason and late types and will give a profusion of bloom from July to late October. Asters require good rich soil and during the growing period should be well supplied with water.

**PRINCESS.** Flowers 3 in. in dia. Deeply quilled cushion centers; branching habit, ideal for bedding and cut flowers.

Mixed, Pkt., 25c; ¼ oz., 90c; oz. \$3.00.

**AMERICAN BRANCHING.** A very distinct variety resembling Chrysanthemums; plants 2 feet in height and width and bloom in July or early August.

Azure Blue, Crimson, Shell Pink, White, Mixed. Pkt. 15c; ¼ oz., 65c; oz. \$2.00; 4 oz., \$7.00.

**CREGO.** Flowers 4 to 5 inches in diameter during late summer and fall. Plants are of strong branching growth, 2 to 2½ feet high. Separate colors.

Dark Blue, Shell Pink, Mixed.

Pkt., 15c; ¼ oz., 65c.

**CALIFORNIA SUNSHINE.** Flowers 4 to 5 inches in diameter, half double. Fine for cutting, midseason, height 3 ft. Non-resistant.

Mixed, Pkt., 15c; ¼ oz., \$1.00

### BALSAM OR LADY SLIPPER

Produces numerous flowers resembling tiny roses throughout the summer and early fall. An old favorite for beds and borders. 2 feet.

Splendid double mixed, pkt., 15c; ¼ oz., 75c.

### BELLS OF IRELAND

**Molucella Laevis**—Pale green flowers on 2 ft. stems, blends beautifully in flower arrangements.

Pkt., 25c; ¼ oz. \$1.00.





**Centaurea**

## CALENDULA

Blooms continuously from June until frost. 15 to 24 inches.

**EXTRA DOUBLE ORANGE KING.** Rich deep orange. Pkt., 15c; ¼ oz., 30c; oz., \$1.00.

**LEMON QUEEN.** Light golden-yellow flowers, Pkt., 15c; ½ oz., 75c.

**ORANGE SHAGGY.** Distinct type having long narrow fringed petals. Flowers 3 in. across. Somewhat resembling rich deep orange Chrysanthemums, grows 18 in. high.

Pkt., 15c; ½ oz., \$1.00.

**RADIO.** Medium sized, clear orange, closely set petals, attractively quilled.

Pkt., 15c; ½ oz., \$1.00.

**FINEST MIXED.** Pkt., 10c ½ oz., 50c.

## CALLIOPSIS

Blooms from early summer until frost. 20 to 36 inches Dwarf Mixed.—Pkt., 15c; ½ oz., \$1.00.

## CAMPANULA—CANTERBURY BELLS

Biennial, sow seed in June for blooms following early summer. An old-fashioned favorite, stately, showy, and easily grown. Bell-shaped flowers on long upright stems. Plants form perfect pyramids about 2 ft. high.

Mixed, Pkt., 25c; ¼ oz., \$1.50.

## CANDYTUFT

**UMBELLATA FINEST MIXED.** Clusters of small flowers, useful for beds, borders, rock gardens and cutting. Height 12 inches. Blooms May to July. Pkt., 15c; oz., 55c.

## CARNATION (Marguerite)

Easily grown as an Annual producing large double blooms 4 or 5 months after sowing seed. Very fragrant. (See Perennials.)

## CELOSIA OR COCKSCOMB

Excellent for cutting. Blooms June to frost.

**PLUMOSA.** Feathered varieties, fiery red, yellow or mixed, height 2 to 3 ft.

Pkt., 15c; ¼ oz., 85c.

**DWARF EMPRESS COCKSCOMB.** Dark-leaved, bright crimson. Height 10 in.

Pkt., 15c; ¼ oz., 80c.

**TALL EMPRESS COCKSCOMB MIXED.** Height 1½ ft. Pkt., 15c; ¼ oz., \$1.00.

**CHILDSII.** (Chinese Woolflower.) 2½-3 ft. Crimson. Pkt., 15c; ¼ oz., \$1.10.

Mixed, Pkt., 15c; ¼ oz., \$1.00.

## CENTAUREA

**CENTAUREA CYANUS; BACHELOR'S BUTTON OR CORN FLOWER.** Double mixed. Height 2-2½ ft. Blooms from mid-summer until frost.

Pkt., 15c; ½ oz., 25c; oz., 65c.

**CENTAUREA MOSCHATA OR SWEET SULTAN.** Sweet scented flowers on long stems, when cut will last for several days. Height 2½-3 ft.

Mixed, Pkt., 15c; ¼ oz., 35c; oz., \$1.00.

**CORNFLOWER, JUBILEE GEM**—Dwarf plants, 1 foot, freely blooming, vivid blue.

Pkt., 15c; ¼ oz., 60c; oz., \$1.80.

## CHRYSANTHEMUMS

Annual Chrysanthemums are free-blooming, easily grown plants, having large single flowers in a variety of brilliant colors, fine for cutting. Height 2 ft. Blooms from summer until frost.

Single, Mixed. Pkt., 15c; ¼ oz., 75c; oz., \$2.25.

## CLARKIA

Graceful, profuse flowering. Height 2 ft. Blooms like small double roses from June until frost.

Double mixed. Pkt., 15c; ¼ oz., 50c.

**CLEOME**—(Spider Plant)

**PINK QUEEN**

¼ oz., 55c; oz., \$1.90.

## COSMOS

**FIESTA.** All American Winner 1952. Semi double flowers, ruffled, 2½ ft. plants, blooms all summer. Red, orange, yellow, suffusion of color.

Pkt., 25c; ¼ oz., \$1.20.

**MANDERIN.** Pkt., 25c; ⅛ oz., 65c; ¼ oz., \$1.25; oz., \$5.00.

**RADIANCE.** All American Winner 1948. A striking color combination of deep rose overlaid with well-defined zone of rich crimson.

Pkt., 15c; ¼ oz., 50c; oz., \$1.60.

**SENSATION.** Extremely early free blooming, flowers 4 to 5 inches, plants 4 ft. White, Pink and Mixed.

Pkt., 15c; ¼ oz., 50c; oz., \$1.60.

**DOUBLE EARLY FLOWERING MIXED.** Blooms 3 in. Height 4 ft.

Pkt., 25c; ⅛ oz., \$1.00.

## CYNOGLOSSUM

(Chinese forget-me-not)

**AMABLE.** Dwarf sweet scented, blue.

Pkt., 15c; ¼ oz., 35c.

## DIANTHUS OR PINKS

These biennials flower freely the first year from seed, and in most locations are quite hardy and produce larger flowers the second year.

**TETRAPLOID HEDDENSIS.** Large long stemmed double flowers. Plants 10-12 inches.

Pkt., 15c; ¼ oz., 75c.

## DIDISCUS—Blue Lace Flower

**COERULEUS.** Lavender, blue, lace-like flower; blooming profusely from June to September; 1½ feet tall.

Pkt., 15c, ¼ oz., 80c; oz., \$2.40.





**Cosmos Radiance**

## DIMORPHOTHECA

**AURANTIACA** (African Daisy). Orange-gold daisy-like blooms on long stems. Bushy plants 12-15 inches tall. Bloom until frost. Pkt., 15c; ¼ oz., 40c.

## EUPHORBIA

**VARIEGATA** (Snow on the Mountain). Bright green foliage veined and margined with white, top leaves snow white. Height 3 ft. Pkt., 20c; oz., 60c.

## GLOBE AMARANTH-GOMPHRENA

One of the best "Straw flowers." Perfect globe shape. Blooms midsummer until frost. Height 2 ft. Mixed colors. Pkt., 15c; ¼ oz., 35c.

## GODETIA (Satin Flower)

**DOUBLE-DWARF MIXED.** Azalea flowered. Blooms 2 to 3 in. dia., June to August. Plants 1 foot high. Pkt., 15c; ¼ oz., 60c.

## GYPSOPHILA (Baby's Breath)

Graceful plants, myriads of small bell-shaped single flowers, excellent for their delicate effect in bouquets. Height 2 ft. Elegans Gr. Fl., Pkt., 15c; oz., 30c.

## HELIANTHUS

**CHREYSANTHEMUM FLOWERED.** Golden yellow double blooms 6 to 8 inches across. Used as backgrounds or screens on account of their stately growth. Thrives in almost any soil exposed to the sun, blooms until frost. Height 6-7 ft. Pkt., 15c; ¼ oz., 30c.

## HELICHRYSUM (Straw)

**MONSTROSUM.** Double pompon-like flowers 1 to 2 in. dia. often dried and used as "straw flowers." Height 2 ft. Blooms from June to November. Mixed, Pkt., 25c; ¼ oz., 40c; oz., \$1.40.



**Helichrysum**

## HOLLYHOCK

**SINGLE ANNUAL FINEST MIXED.** Pkt. 15c; ¼ oz., 45c. Also see perennials.

## KOCHIA—SUMMER CYPRESS (Mexican Fire Bush)

Quick growing hedge plant. Very symmetrical and attractive, the bushes taking on a distinctive red tinge late in the summer; for this reason often called Mexican Fire Bush. Height 2-3 ft. Pkt., 15c; oz., 50c.

## LANTANA

**DWARF HYBRIDS MIXED.** Pkt., 30c; ¼ oz., 90c; oz., \$2.70.



**Dianthus**





Lobelia



Lupins



Nigella

## LARKSPUR

For Perennial Larkspur see Delphinium.

Seed sown in April will produce flowering plants by the first of July and continue to bloom until frost. November sowing is preferred by many growers.

**GIANT IMPERIAL DOUBLE.** Height 3-4 ft. White, Carmine Rose, Blue, Pink.

Pkt., 15c; ¼ oz., 50c; 1 oz., \$1.25; ¼ lb., \$3.75; 1 lb., \$12.00. (Mixed Pkt., 50c)

**REGAL.** Long thick spikes, full Delphinium-like florets, compact, basal branching habit; vigorous and early. Height 3-4 ft. Dark blue, Rose, White or Mixed.

Pkt., 40c; ½ oz., \$1.00; oz., \$1.80.

## LOBELIA

**CRYSTAL PALACE COMPACTA.** Desirable for edgings. Dark blue flowers, dark foliage. Height 4 inches.

Pkt., 25c; ⅛ oz., 60c; ¼ oz., 75c; oz. \$2.25.

## LUPINUS

Long graceful spikes of richly colored pea-shaped flowers. During July and August. Prefers a little shade, acid soil and cool weather.

**HARTWEGII GIANT KING MIXED.** Height 2-3 ft.

Pkt., 25c; oz., \$1.00; 4 oz., \$3.00.

## MARIGOLD

### AFRICAN (TALL) VARIETIES

**AFRICAN.** Mixed. Double.

Pkt., 15c; ¼ oz., 75c.

**CRACKERJACK.** Mixed.

Pkt., 25c; ¼ oz., \$1.00.

**CROWN OF GOLD.** Collarette type, rich golden yellow, chrysanthemum formed, fragrant, double. 2½-inch blooms. Height 2 ft.

Pkt., 15c; ¼ oz., \$1.00.

**CUPID.** Mixed.

Pkt., 50c; ⅛ oz., .90c; ¼ oz., \$1.75.

**GLITTERS.** Large, tall, clear yellow. Double Chrysanthemum flowered.

Pkt., 25c; ¼ oz., 75c.

**GOLDLOCKS.** Mixed.

Pkt., 25c; ¼ oz., \$1.25.

**GUINEA GOLD.** Orange flushed with gold, flowers semi-double. Height 2 to 2½ feet.

Pkt., 15c; ¼ oz., 55c.

**MAMMOTH MUM.** Large double fluffy light sulphur-yellow flowers resembling Chrysanthemums. Plants bushy, erect and strong. Height 3 ft.

Pkt., 25c; ⅛ oz., \$1.00.

**SUNSET GIANTS.** Largest known Marigolds, measuring 5 inches or more, ranging in color from deep orange to lemon-yellow, and a new delightful shade of primrose.

Fragrant. Height 3-4 ft.

Pkt., 15c; ¼ oz., \$1.00.

### FRENCH (DWARF) VARIETIES

**BUTTERBALL.** Extra dwarf double, soft yellow. Height 6 to 8 in.

Pkt., 15c; ¼ oz., \$1.00.

**FLASH.** Extra early, free flowering, single orange-red profuse blooms. Height 1½ ft.

Pkt., 15c; ¼ oz., 60c.

**FRENCH.** Dwarf double mixed. Height 1 ft.

Pkt., 15c; ¼ oz., 60c; oz., \$1.80.

**MELODY.** Double, solid bright orange. Height 1 ft.

Pkt., 15c; ¼ oz., 60c; oz., \$1.80.

**PETITE.** Double, Mixed.

Pkt., 25c; ⅛ oz., \$1.25; ¼ oz., \$2.00.

## MARVEL OF PERU—FOUR O'CLOCK

Large showy fragrant flowers, blooming the entire season. Height 2 ft.

Mixed, Pkt., .20c; oz., .40c.

## MIGNONETTE

Sowing made in April and again in July will result in a succession of bloom from early summer until frost.

**MACHET GIANT MIXED.** Large spikes, very fragrant. Height 12-15 inches.

Pkt., 15c; ¼ oz., 50c.

## NASTURTIUM

Bloom most prolifically if given a rather poor soil and an open sunny location.

**DWARF MIXED.** Brilliant shades of yellow, and red. Height 9 in.

Pkt., 15c; oz., 30c; ¼ lb., \$1.05.

**DOUBLE GLEAM HYBRIDS.** Large, sweetscented double flowers in wide range of colors. Height 15 in. Golden, Scarlet or Mixed.

Pkt., 15c; oz., 40c; ¼ lb. \$1.25.

**TALL TRAILING—CHOICE MIXED.** Height 10 ft.

Pkt., 15c; oz., 30c; ¼ lb., \$1.00.

## NICOTIANA

**AFFINIS.** Gives a continuous display of very fragrant flowers through the summer and autumn. Height 2-3 ft. Mixed. Pkt., 15c; ¼ oz., 60c.

## NIGELLA OR LOVE-IN-A-MIST

Free-flowering plant, producing curious flowers surrounded by the finely cut foliage. Height 1½ ft.

**DOUBLE BLUE.** Pkt., 15c; ¼ oz., 40c.

## ORNAMENTAL GRASS

Vigorous plants, grown for their gray ornamental seeds which when dried are used for beads. Height 2-3 ft.

**COIX LACRYMA.** (Job's Tears.) Pkt., 15c; oz., 75c.





Stocks



Schizanthus



Salpiglossis

## PANSIES

May be sown in April or May for summer flowering or in August for early spring blooming. They thrive best in an open exposure, with protection during the winter. For summer flowers however partial shade will greatly prolong the blooming season. Height 8 in.

**PAY DIRT.** Large yellow with black lines. Originator's Seed. Heat Resistant.

Pkt., 50c; 1/16 oz., \$3.35; 1/8 oz., \$6.05; 1/4 oz., \$10.90.

**SWISS GIANTS.** Mixed reselected Florist strain. In a fine range of colors.

Pkt., 25c; 1/4 oz. \$2.75; oz., \$9.00.

**TRIUMPH OF THE GIANTS.** (Fringed.) Blooms enormous, brilliant colors.

Pkt., 25c; 1/8 oz., \$1.50; oz., \$10.00.

**SWISS GIANT ALPENGLOW.** Rich garnet and ruby red shades with dark blotches.

Pkt., 25c; 1/4 oz., \$2.00.

**SWISS GIANT CORONATION GOLD.** Large golden yellow, without blotches or marking.

Pkt., 25c; 1/4 oz. \$2.00.

**SWISS GIANT ULLSWATER.** Marine blue with darker blue blotches.

Pkt., 25c; 1/4 oz., \$2.00.

**SWISS GIANT.** White.

Pkt., 25c; 1/4 oz., \$2.00.

## PETUNIAS

**GIANTS OF CALIFORNIA.** Huge blooms in light and dark colors, fringed and ruffled. Height 12 in.

Mixed, Pkt., 25c; 1/32 oz., \$4.00

**BALLERINA.** Deep pink, fringed grandiflora.

Pkt., 50c.

**HOWARD'S STAR.** Rose-crimson with a five-pointed white star. Height 18 in.

Pkt., 15c; 1/8 oz., \$1.50.

**WHITE CLOUD.** Single white.

Pkt., 50c; 1/32 oz., \$3.40; 1/16 oz., \$5.75.

**DWARF BEDDING VARIETIES** (Height 12 in.)

**BLUE BEDDER.** Mid-blue.

Pkt., 15c; 1/4 oz., \$1.35.

**CARNIVAL.** Mixture of bright colors.

Pkt., 25c; 1/16 oz., \$7.00; 1/4 oz., \$21.00.

**ROSY MORN.** Pink white throat.

Pkt., 15c; 1/4 oz., \$1.50.

**ROSE OF HEAVEN.** Deep brilliant rose.

Pkt., 15c; 1/4 oz., \$2.00.

**SNOWBALL IMPROVED.** Large white.

Pkt., 15c; 1/4 oz., \$1.80.

**DWARFED MIXED**

Pkt., 15c; 1/8 oz., \$1.00; 1/4 oz., \$1.70.

**DWARF ELK'S PRIDE.** Deep Purple.

Pkt., 25c; 1/32 oz., \$4.00.

## ALL DOUBLE DWARF MIXED

Pkt., \$1.00.

**ALL DOUBLE DWARF.** Pure white fringed.

Pkt., \$1.00.

**FIRE CHIEF.** All American, brilliant red.

Pkt., 25c; 1/16 oz., \$1.65; 1/8 oz., \$2.90.

**FLAMING VELVET**—velvety crimson. Height 18 in.

Pkt., 15c; 1/8 oz., \$1.25.

**RED SATIN.** F<sub>1</sub> Hybrid.

Pkt., \$1.25; 1/64 oz., \$7.50; 1/32 oz., \$14.50.

## BALCONY PETUNIAS

**HYBRIDA PENDULA.** For porch and window boxes. Large blooms produced in abundance.

Mixed, Pkt., 15c; 1/8 oz., 80c.

## PHLOX

**\*DRUMMONDII.** Choice mixture, first quality. Height 15 in.

Pkt., 15c; 1/4 oz., 60c; oz., \$2.00.

**\*STAR PHLOX.** (Cuspidata.) Star-shaped flowers. Height 12 in.

Pkt., 15c; 1/4 oz., 80c.

**TWINKLE.** Dwarf.

Pkt., 75c; 1/8 oz., \$1.30; 1/4 oz., \$2.35; oz., \$7.00.

## POPPIES

**TULIP POPPY.** Scarlet flowers 3 inches in diameter, greatly resembling tulips. Height 20 in.

Pkt., 15c; 1/4 oz., 75c.

**SHIRLEY.** Height 20 in. American Legion or special mixed.

Pkt., 15c; 1/4 oz., 40c; oz., \$1.20.

**ESCHSCHOLTZIA.** (California Poppy). Spreading plants 1 foot high.

Mixed. Pkt., 15c; 1/4 oz., 40c.

## PORTULACA—Mexican Rose

Thrives best in rather rich soil in a sunny situation. Height 6 in.

**\*LARGE-FLOWERING EXTRA DOUBLE MIXED.**

Pkt., 15c; 1/4 oz., \$1.25.

**\*LARGE-FLOWERING SINGLE MIXED.**

Pkt., 15c; 1/4 oz., 70c.

## RICINUS—CASTOR OIL BEAN

Ornamental plants of strong, stately growth, the foliage having the appearance of a tropical plant. Height 6-8 ft.

**ZANZIBAR.** Extra mixed.

Pkt., 15c; 1/4 lb., \$1.00.

## RUDBECKIA—Coneflower (Black-Eye-Susan)

**MY JOY.**

Pkt., 15c; oz., \$2.00.



## SALPIGLOSSIS

Petunia-like flower borne on bushy stem, about 24 inches tall.

Mixed. Pkt., 15c;  $\frac{1}{4}$  oz., 40c.

## SALVIA SPLENDENS OR SCARLET SAGE

**BONFIRE.** Dense flowering 26 inches tall.  
Pkt., 15c;  $\frac{1}{4}$  oz., \$1.50; oz., \$5.25.

**BLAZE OF FIRE.** Ten days earlier than other early flowering Salvia. Height 12 in.  
Pkt., 25c;  $\frac{1}{8}$  oz., \$1.50;  $\frac{1}{4}$  oz., \$2.25.

**HARBINGER.** Bluish green foliage and a profusion of scarlet flowers. Height 16 in.  
Pkt., 25c;  $\frac{1}{8}$  oz., \$1.50.

**ST. JOHN'S FIRE.** Ex. early dwarf, 10 inches.  
Pkt., 25c;  $\frac{1}{8}$  oz., \$1.65;  $\frac{1}{4}$  oz., \$2.75;  $\frac{1}{2}$  oz., \$5.00.

## SCABIOSA OR MOURNING BRIDE

Fine free-flowering plants for mixed borders and cut flowers, ranging from white to dark maroon. Height 3 $\frac{1}{2}$  feet.

**IMPERIAL HYBRIDS MIXED.**

Pkt., 15c;  $\frac{1}{4}$  oz., 65c.

## SCHIZANTHUS

**\*MONARCH HYBRID MIXED.** Noted for variety of coloring and butterfly-like blossoms; fern-like foliage, height 18 inches.

Pkt., 15c;  $\frac{1}{8}$  oz., \$1.00.

## SNAPDRAGON

See Antirrhinum. Listed with Perennials

## SPIDER PLANT

**CLEOME.** Plants 4 ft. spreading but open growth. Pink curious flower heads. Blooms continuously until frost.  
Pkt., 15c;  $\frac{1}{4}$  oz., \$1.00.

## STATICE (Annual)

Clusters of colorful, strawy blooms on stiff stems. Often dried and used for winter bouquets. Height 2 ft.

**\*SINUATA CHOICE MIXED.**

Pkt., 15c;  $\frac{1}{4}$  oz., 40c.

## STOCKS-10-WEEKS

Deliciously-scented flowers like small rosettes are produced in a wide range of soft and distinct shades. Blooms May to July.

**DOUBLE EARLY GIANT IMPERIAL.** (Improved Bismarck.) Height 26 in.  
Mixed. Pkt., 15c;  $\frac{1}{8}$  oz., 75c.

**DRESDEN PERPETUAL.** Will live outdoors for several years if protected with a fairly thick layer of straw, which must be lifted early in the spring. Height 20 in.  
Pkt., 15c;  $\frac{1}{8}$  oz., \$1.00.

**DWARF DOUBLE LARGE FLOWERED MIXED.** Height 12 in.  
Pkt., 15c;  $\frac{1}{8}$  oz., 75c.

## SWEET PEAS

One Ounce for 30 to 40 feet of row

**CUTHBERTSON.** The ideal strain for gardeners Superior to other types in vigor, profusion for large fragrant flowers, and longer stems. The chief advantage outdoor is their longer blooming period, due to their ability to withstand warm weather.

**FINEST MIXED.**

Pkt., 15c;  $\frac{1}{2}$  oz., 35c; oz., 55c;  $\frac{1}{4}$  lb., \$1.65; 1 lb., \$5.00.



Sweet Peas

## SWEET PEAS (Continued)

**LITTLE SWEETHEART, Mixed.**

$\frac{1}{4}$  oz., \$1.00; oz., \$3.00; 4 oz., \$10.00.

## SUNFLOWER

(See Helianthus)

## SUMMER POINSETTIA

See Amaranthus Molten Fire.

## TITHONIA

**TORCH.** Orange scarlet, single flowers with gold centers. 5 ft. tall.

Pkt., 25c;  $\frac{1}{8}$  oz., 90c.

## TORENIA

**FOURNIERI.** Plants 6 to 8 in., bushy. Blooms July until frost. Flowers, blue with yellow throat. Not available, crop failure.

## VERBENA

One of the finest bedding plants, producing a mass of bloom throughout the summer. Seeds may be planted as soon as the ground can be worked or earlier indoors and transplanted to the beds in April or May. They succeeded in almost any good garden soil.

**HYBRID MAMMOTH MIXED.** Extra large flowered, brilliant colors and vigorous. Height 1 $\frac{1}{2}$  ft.  
Pkt., 15c;  $\frac{1}{8}$  oz., 60c.

**HYBRIDA COMPACTA.** Dwarf mixed.  
Pkt., 15c;  $\frac{1}{8}$  oz., 60c.



## VINCA (Periwinkle)

Attractive bushy plants with glossy green foliage, producing in abundance handsome flowers that bloom freely all summer. Height 1 ft.  
Choice mixed. Pkt., 15c; ¼ oz., 60c.

## ZINNIAS—DOUBLE

### DAHLIA FLOWERED IN SEPARATE COLORS

Height 2½-3 ft.

**CRIMSON MONARCH.** Deep crimson.

**DREAM.** Deep lavender purple.

**GOLDEN DAWN.** Golden yellow.

**ILLUMINATION.** Deep soft pink.

**POLAR BEAR.** Pure white.

**WILL ROGERS.** Scarlet.

Pkt., 15c;  
¼ oz., 50c  
1 oz., \$1.50

**DAHLIA FLOWERED MIXED.**

Pkt., 15c; ¼ oz., 50; 1 oz., \$1.50.

**BURPEE'S HYBRIDS.** Giant flowers with quilled petals, wide range of colors. 3 ft.

Pkt., 25c; ½ oz., 60c.

**GIANT FLOWERED MIXED.** Height 3-4 ft.

Pkt., 15c; ¼ oz., 50c; 1 oz., \$1.25.

**EARLY WONDER FINEST MIXED.** Earliest of all Zinnias. 3 to 4 in. flowers on long wiry stems. Plants have no laterals and practically no leaves. Bred for cut flower use. Height 1½ to 2 ft.

Pkts., 25c; ½ oz., 50c.

**PASTEL GIANTS MIXED.**

Pkts., 25c; ½ oz., 50c.

**PERSIAN CARPET.** Flowers 1 to 1½ in. diameter, each plant different, 12 in. height.

Pkt., 25c; ½ oz., 90c; ¼ oz., \$1.50.

**RED RIDING HOOD (Cupid Type—Dw. 12 in.)** Bright crimson.

Pkt., 25c; ¼ oz., \$1.50.

**FANTASY.** Large, well-rounded, graceful blooms on long stems in the usual range of zinnia colors. Height 2½-3 ft.

Pkt., 15c; ¼ oz., 60c.

**DOUBLE LILLIPUT.** Dainty profuse blooming type; flowers 1 inch in diameter. Orange, Salmon Rose, Lilac, Pink, Scarlet, Mixed. Height 1½-2 ft.

Pkt., 15c; ¼ oz., 50c.



Zinnias

**TOM THUMB FINEST MIXED.** Well formed flowers of the Lilliput type, for pot plants and borders. Height 6 to 8 in.

Pkt., 15c; ¼ oz., 75c.

**PEPPERMINT STICK.** Medium size bloom with striped petals.

Mixed Pkt., 25c; ¼ oz., 75c.

**PUMILA (Cut & Come Again).** Mixed colors.

Pkt. 30c; ¼ oz., 50c; oz. \$1.50.

## VINES

**BALLOON VINE.** (Cardiospermum.) Graceful, rapid grower, with clusters of small white flowers followed by large, inflated balloon-shaped seed pods. Height 10 ft.

Pkt., 15c; ¼ oz., 40c.

**BALSAM APPLE.** (Balsamina.) Rapid growing vines with light green leaves and beautiful fruits of a rich golden yellow color, which when ripe, open up, disclosing the seeds in a carmine covering. (10-12 ft.)

Pkt., 15c; ½ oz., 50c.

**CARDINAL CLIMBER.** (Ipomoea Quamoclit Hybrida.) Brilliant scarlet flowers are borne profusely; leaves resemble those of a Japanese Maple. (15-25 ft.)

Pkt., 15c; ¼ oz., 60c.

**COBAEA SCANDENS.** Of rapid growth, with fine foliage and large bell-shaped flowers of a beautiful violet blue color. (10-20 ft.)

Pkt., 15c; ½ oz., 45c; ¼ oz., 60c.

**CYPRESS VINE.** (Ipomoea quamoclit.) Slender vine, with fern-like foliage and a mass of small star-shaped flowers. (10 ft.)

Scarlett. Pkt., 15c; ¼ oz., 50c.

**GOURDS.** A large and interesting class producing a great variety of curious fruits, many of which are peculiarly marked. (12 ft.)

Pkt., 15c; ½ oz., 50c.

**HYACINTH BEAN (Dolichos.)** Superior to the old-fashioned flowering bean. (15 ft.)

Mixed. Pkt., 15c; oz., 40c.

**KUDZU VINE.**

Pkt., 15c; ¼ oz., 50c.

**MOON FLOWER.** White (Ipomoea mexicana) pretty, rapid growing, fragrant, trumpet-shaped flowers at evening. (15 ft.)

Pkt., 15c; ½ oz., 35c; oz., 60c.

### MORNING GLORY

**Scarlet O'Hara.** Rich dark red or deep rosy crimson, 3½ inch diameter. (10 ft.)

Pkt., 15c; ¼ oz., 45c; oz., \$1.25.

**Heavenly Blue.** Sky blue, shading golden yellow in throat, 4 inch diameter. (10 ft.)

Pkt., 15c; ¼ oz., 35c; oz., 75c.

**Pearly Gates.** Enormous flowers, 4½ inches across, clear shining white. (10 ft.)

Pkt., 15c; ¼ oz., 35c; oz., 90c.

**Giant Japanese Imperial Mixed.** (10 ft.)

Pkt., 15c; ¼ oz., 35c.

**PASSION FLOWER.** (Passiflora.) A most interesting climber, bearing singularly beautiful flowers. Blue and white mixed.

Pkt., 15c; ¼ oz., \$1.65.

**SMILAX.** Pkt., 25c! ¼ oz., .80c.

**THUNBERGIA.** (Black-eyed Susan.) Free-flowering and of rapid growth. May be trained on a slender trellis or allowed to run freely over the ground to cover bare spaces. (5 ft.)

Pkt., 15c; ¼ oz., 60c.

**SCARLET RUNNEB.** Produces clusters of showy bright scarlet pea-shaped blossoms, followed by edible beans of very fine quality. (20 ft.)

Pkt., 15c; oz., 20c.



# Perennial Flower Seeds

Perennials are used extensively in old fashioned gardens, hardy borders and rock gardens. They are easily grown and when once established become increasingly beautiful year after year. Care should be taken in selecting varieties according to their color, height and season of bloom.

The seeds may be sown indoors or in hot beds early in the spring and transplanted to their permanent locations when three or four inches tall. Very satisfactory results can also be obtained by sowing the seeds early in August and shading from excessive heat by using lath or burlap screens. It is well to give young plants winter protection the first year.

The following list includes those varieties which are most popular because of their beauty, usefulness and adaptability to local climatic conditions:

## ALYSSUM

**\*SAXATILE**—Compactum. Bright sulphur-yellow flowers during early spring. Height 9 in.  
Pkt., 15c;  $\frac{1}{4}$  oz., 40c; oz. \$1.20.

## ANEMONE

**\*CORONARIA ST. BRIGID.** Semi-double and double flowers in a wonderful array of brilliant colors. Blooms in June. Height 12 in.  
Pkt., 15c;  $\frac{1}{4}$  oz., \$1.10.

## ANTIRRHINUM OR SNAPDRAGON

(Rustproof)

This border and bedding plant of long blooming season is one of the best perennials suitable for flowering as an annual. Very desirable for cutting as the blooms are borne well above the dark glossy leaves and keep fresh for a long time.

**TALL MIXED.**  $2\frac{1}{2}$  to 4 ft.

Pkt., 15c;  $\frac{1}{4}$  oz., \$1.50.

**TETRAPLOID MIXED.**  $2\frac{1}{2}$  to 4 ft. Commercial florist strain. Vigorous grower. Florets huge, mostly ruffled, twelve inch flower spikes are usual.

Pkt., 25c;  $\frac{1}{4}$  oz., \$2.50.

**SEMI-DWARF MIXED.**

Pkt., 25c;  $\frac{1}{8}$  oz., 70c;  $\frac{1}{4}$  oz., \$1.25.

## AQUILEGIA OR COLUMBINE

**LONG SPURRED GIANT HYBRIDS.** Very hardy, blooming early in the season and during the summer a dainty cut flower. Height 3 ft.

Pkt., 15c;  $\frac{1}{8}$  oz., \$1.20.

**\*COERULEA**—The Rocky Mountain Columbine. Blue, blooms during June. Height 2 ft.

Pkt., 15c;  $\frac{1}{4}$  oz., \$1.25.

## ARABIS—Rock Cress

**\*ALPINA.** White flowers, a fine border for taller perennials. Blooms during April. Height 6 in.

Pkt., 15c;  $\frac{1}{4}$  oz., 75c.

## ARMERIA—Sea Pink

**\*FORMOSUM HYBRIDS.** Dwarf plants with grassy leaves and clover-like flower heads from May until July in various shades of pink. Height  $1\frac{1}{2}$  ft.

Pkt., 25c;  $\frac{1}{8}$  oz., 75c.



Anemone

## BELLIS (Double English Daisy)

Dwarf plant which bears very double aster-like flowers. April to July. Height 6 in.

**ENORMA.** Doubled Red.

Pkt., 25c;  $\frac{1}{8}$  oz., \$1.00.

**MONSTROSA.** Double Mixed.

Pkt., 15c;  $\frac{1}{4}$  oz., \$1.60.



Aquilegia



## BOSTON IVY

**AMPELOPSIS VEITCHII.** Popular wall ivy with three lobed leaves which turn to bright red late in the fall. Attains a height of 20 to 30 feet in 2 or 3 years. Pkt., 15c; 1/8 oz., 50c.

## CACTUS

**MIXED VARIETIES.** All kinds and forms mixed including rare sorts. Easily and quickly grown; very interesting pot plants. Pkt., 25c; 1/16 oz., 90c.

## CAMPANULA—CANTERBURY BELLS

**CALYCANTHEMA.** Hardy Biennial. Tall, erect plants, completely covered with cup and saucer shaped flowers during May and June. Height 3 ft. Mixed, Pkt., 25c; 1/4 oz., 50c; Oz., \$1.75.

## CANDYTUFT

**\*IBERIS SEMPERVIRENS.** Heads of white flowers. Height 1 ft.

Pkt., 15c; 1/4 oz., \$1.25.

**GIBALTARICA.** White flushed lilac. Blooms during June and July. Height 10 in.

Pkt., 15c; 1/4 oz., 50c.

**QUEEN OF ITALY.** Rosy lilac.

Pkt., 15c; 1/4 oz., \$1.00.

## CARNATIONS

With protection these well known half-hardy perennials can be wintered over outdoors. When planted early they will begin to bloom in about four months and continue until late in the fall. For winter blooming they should be cut back by removing the flower shoots early in the fall and transplanted to pots and kept in a cool room.

**EARLY DWARF VIENNA.** Compact plants displaying an excellent range of bright colors. Height 1 ft. **Mixed Dwarf.**

Pkt., 25c; 1/8 oz., \$1.50.

**MARGUERITE.** Half Dwarf. Height 15 to 18 in. Choice double mixed.

Pkt., 15c; 1/4 oz., \$1.50.

**PERPETUAL (Famous Chaubaud Type).** Height 2 ft. Scarlet or white.

Pkt., 25c; 1/8 oz., \$1.10.

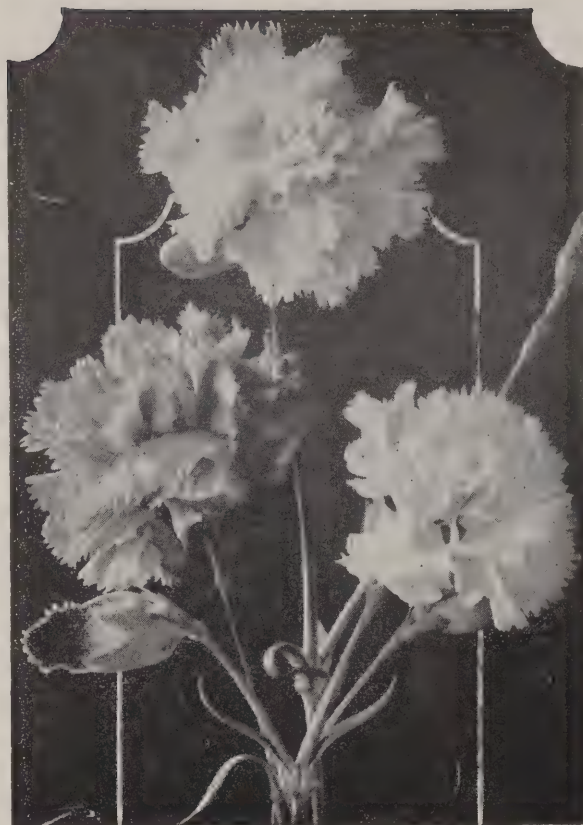
Choicest mixture. Pkt., 25c; 1/8 oz., \$1.00.

## CHRYSANTHEMUM PLANTS

Hardy Garden Varieties  
Ready May 20



Delphinium



Carnation

## COLEUS (Tender)

**HYBRID MIXTURE.** Richly colored foliage plants, shady or partially shady locations. Height 20 in. Pkt., 25c; 1/16 oz., \$2.00.

## COREOPSIS—Golden Wave

**GRANDIFLORA. (Mayfield Giants.)** Double and semi-double golden yellow flowers during late spring and summer. Height 3 ft.

Pkt., 15c; 1/4 oz., 60c.

## DAHLIA (Half Hardy)

**UNWINS DWARF HYBRID IDEAL BEDDING MIXED.** Double and semi-double flowers in a wide range of color. Flowering within four months from sowing. Height 1 1/2-2 ft.

Pkt., 25c; 1/4 oz., 80c.

## DELPHINIUM

**PACIFIC GIANTS BLACK KNIGHT.** Very dark blue. Pkt., 50c; 1/16 oz., \$1.50.

**PACIFIC GIANTS GALAHAD.** Clear hugh white. Mildew resistant. Height 5 ft.

Pkt., 50c; 1/16 oz., \$1.50.

**PACIFIC GIANTS MIXED.** Florets 2 1/2 to 3 1/2 in. across. Mildew resistant. Height 5 ft.

Pkt., 25c; 1/16 oz., \$1.25.

## DIANTHUS—Hardy Pinks

**SPRING BEAUTY.** Large clusters, fragrant. Height 1 1/2 ft.

Double and Single Mixed. Pkt., 15c; 1/8 oz., \$1.25.

**\*PLUMARIUS—Single Mixed.** Large showy single flowers in wide range of colors during May and June. Height 1 ft.

Pkt., 15c; 1/4 oz., 40c.

**\*PLUMARIUS—Double Mixed.** Of very compact growth, double flowers in many colors, during May and June. Height 1 ft.

Pkt., 15c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.





Gerbera

### FEVERFEW (*Matricaria*)

**BRIDAL ROSE.** Small, white button-like double flower heads, from June to October. Height 2 ft.  
Pkt., 15c;  $\frac{1}{8}$  oz., \$1.00.

**GOLDEN BALL.**

Pkt., 25c;  $\frac{1}{8}$  oz., \$1.00;  $\frac{1}{4}$  oz., \$2.00; oz., \$8.00.

### FORGET-ME-NOT—*Myosotis*

**\*BIENNIAL ALPESTRIS.** Succeeds best in moist, shady locations. Vivid blue flowers from May to July. Height 1 ft.

Pkt., 15c;  $\frac{1}{4}$  oz., 85c; oz., \$3.00.

### FOXGLOVE OR DIGITALIS

**EXCELSIOR HYBRIDS.** Produces long spikes of beautiful, tubular-shaped flowers in a wide range of rich colors during June and July. Height 4-5 ft.

Pkt., 45c;  $\frac{1}{4}$  oz., \$1.25; oz., \$3.75.

### GAILLARDIA

**BURGUNDY.** Long stemmed daisy-like flowers bloom in profusion from June to October. Height 2½ ft. The reddest Gaillardia—shining wine-red petals sometimes tipped yellow.

Pkt., 15c;  $\frac{1}{4}$  oz., 75c.

**THE DAZZLER.** Bright golden yellow with crimson-maroon center, rather large.

Pkt., 15c;  $\frac{1}{4}$  oz., 55c; oz., \$1.85.

**GRANDIFLORA, FINEST MIXED.**

Pkt., 15c;  $\frac{1}{4}$  oz., 55c.

### GERBERA (*Jamesoni* Hybrids)

**NEW AFRICAN TRANSVAAL DAISY,** producing wonderfully beautiful daisy-like blooms of large size, in a wide range of colors. Grown either as a greenhouse plant or propagated in hot-beds and set out early in May. Height 12 to 18 inches.

Pkt., 25 seeds, 25c; 100 seeds, 75c.

### GEUM—*Coccineum*

**\*MRS. BRADSHAW.** Graceful, double orange-scarlet flowers produced on long stems from June to September. Height 2 ft.

Pkt., 15c;  $\frac{1}{4}$  oz., 90c.

### GYPSOPHILA—*Baby's Breath*

**SINGLE (PANICLUATA).** Tiny white flowers borne on slender stems. The plants are covered with blooms during June and July. Height 3 ft.

Pkt., 15c;  $\frac{1}{4}$  oz., 75c.

**DOUBLE BABY'S BREATH.** Small, double, white flowers, carried on slender wiry stems. Bloom during June and July. Height 3 ft.

Pkt., 25c;  $\frac{1}{4}$  oz., \$1.40; oz., \$4.75.

### HELIOTROPE (Half Hardy)

Excellent bedding plants in summer, desirable pot-plants during winter. Succeeds in any good soil and sunny location. Fragrant. Height 2 ft.

**GIANT FLOWERED. Mixed.**

Pkt., 25c;  $\frac{1}{8}$  oz., \$1.25.

### HESPERIS MATRONALIS

(SWEET ROCKET)

Old fashioned garden plants. Bears white, lilac or purple fragrant flowers. Height 2-3 ft.

Mixed. Pkt., 15c;  $\frac{1}{4}$  oz., 35c.

### HOLLYHOCKS

Excellent for a background to dwarfier plants. Succeeds best in deep rich, well drained soil. Sunny location. Blossoms from late spring until midsummer. Height 5-6 ft.

**CHATERS DOUBLE CHOICE MIXTURE.**

Pkt., 15c;  $\frac{1}{4}$  oz., 65c.

### IBERIS—See Candytuft (Perennial)

### LATHYRUS—Perennial Sweet Peas

A showy, free-flowering hardy climber. Blooms from midsummer until frost. Height 5-6 ft.

**FINEST MIXED.** Pkt., 15c;  $\frac{1}{4}$  oz., 65c.

### LAVENDULA (Lavender)

**MUNSTEAD STRAIN.** 12 inches.

Pkt., 40c;  $\frac{1}{4}$  oz., \$1.25; oz., \$3.75.

### LINARIA—Kenilworth Ivy

**\*CYMBALARIA.** Small lilac blue flowers, are borne on a charming neat trailing plant. Height 4 to 6 in.

Pkt., 15c;  $\frac{1}{4}$  oz., 70c.

### LINUM—Perennial Flax

**\*PERENNE.** Beautiful light blue flowers from July until August. The blooms last only one day but they are produced continuously. Height 2 ft.

Pkt., 15c;  $\frac{1}{4}$  oz., 45c.

### LUNARIA—Honesty

Biennial, having round, silvery white, paper-like seed-pods which are dried for winter bouquets. Height 1½ to 2½ ft.

Mixed. Pkt., 15c;  $\frac{1}{4}$  oz., 40c.

### LUPINE

Elegant spikes of pea-flower-like blooms during May and June. Height 3 ft.

**RUSSEL.** New hybrid.

Pkt., 25c;  $\frac{1}{4}$  oz., 65c.



Gaillardia





Iceland Poppies

### NIEREMBERGIA (Tender Perennial)

**PURPLE ROBE.** Rich deep violet purple dwarf compact, does not fade, free flowering. Height 6 in. Pkt., 25c; 1/32 oz., \$1.75.

### PHLOX

**DECUSSATA—Beltsville Beauty, New Hybrids.** Flowers in all bright colors. Height 2-3 ft. Pkt., 25c; 1/4 oz., 80c; oz., \$2.50.

### POPPIES

**ORIENTAL SCARLET.** Intense scarlet red having a conspicuous black blotch on each petal, during June and July. Height 2½ ft.

Pkt., 15c; 1/8 oz., \$1.00.

**PRINCESS VICTORIA LOUISE.** Salmon pink.

Pkt., 15c; 1/4 oz., \$1.00; oz., \$3.75.

### POPPY NUDICAULE—Iceland Poppies

**\*SUNBEAM MIXED.** Graceful, gaily, colored flowers in white, yellow and orange on slender stems, 1 foot.

Pkt., 15c; 1/8 oz., 75c.

### PRIMULA—Primrose

**\*AURICULA.** Many bright colors, including orange, copper, brown, and other pastel shades. Blooms during spring. Height 6-9 in.

Pkt., 25c; 1/8 oz., \$2.00.

**OBCONICA GIGANTIC.** Choice mixed.

Pkt., 50c; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

### PYRETHRUM—Painted Daisy

**SINGLE MIXED.** Daisy-like flowers, blooming during May and June. Height 2 ft.

Pkt., 15c; 1/8 oz., 80c.

**DOUBLE MIXED.** Bright showy colors, shading from white to deepest red. Height 2 ft.

Pkt., 25c; 1/8 oz., \$1.50.

### SCABIOSA

**CAUCASICA.** Large lavender blue flowers borne profusely on fine long stems. Height 2 ft.

Pkt., 25c; 1/8 oz., \$1.00.

### SHASTA DAISY

**ALASKA.** Large white flowers with yellow center, 4 to 5 in. across, borne singly on long, stiff, wiry stems. Height 2 to 2½ ft.

Pkt., 15c; 1/4 oz., 50c; oz., \$1.50.

**DOUBLE WHITE.**

Pkt., 50c; 1/8 oz., \$1.65; 1/4 oz., \$3.00.

### STOCKS

**DRESDEN PERPETUAL—**(See annuals)

## SWEET WILLIAM—Biennial

### DIANTHUS BARBATUS

Sow the seed very early and have vigorous young plants coming into bloom the same season. They may be sown, however, in August to bloom the following May and June. Height 1-1½ ft.

**SINGLE MIXED.** Pkt., 15c; 1/2 oz., 50c.

**SINGLE NEWPORT PINK.**

Pkt., 15c; 1/4 oz., 75c.

**SINGLE SCARLET BEAUTY.**

Pkt., 15c; 1/4 oz., 80c.

**DOUBLE MIXED.** Pkt., 15c; oz., 90c.

**DOUBLE EXTRA DWARF MIXED.**

Pkt., 25c; oz., \$2.00; 1/4 lb. \$6.50.

### DIANTHUS CHINENSIS

**WEE WILLIE (New)** 3 in. Extra Dwarf in shades of red.

Pkt., 50c; 1/8 oz., \$1.65; 1/4 oz., \$3.00.

### TRITOMA—Poker Plant

**EARLY HYBRID.** Massive orange-scarlet flowers. Blooms August to October. Needs winter protection. Height 3-4 ft.

Pkt., 15c; 1/4 oz., 60c; oz., \$2.00.

### VALERIANA (Coccinea)

Very showy red flowered border plant. Does well in poor soil. Height 2 ft.

Pkt., 15c; 1/4 oz., \$1.00.

### VIOLAS OR TUFTED PANSIES

Flowers resembling small pansies produced abundantly nearly all spring and summer. Bloom first year from seed. 6 in.

**LUTEA SPLENDENS (Yellow).**

Pkt., 25c; 1/4 oz., \$1.60; oz., \$5.25.

**HYBRIDA.** Choice mixed.

Pkt. 25c; 1/16 oz., 75c.

### VIOLET

**ODORATA SEMPERFLORENS.** Blue, fragrant.

Pkt., 25c; 1/16 oz., 75c.

### WALLFLOWER

Sweet-scented flowers in bright oriental red and yellow colors in May. Height 1½ to 2 ft.

**DOUBLE MIXED.** Pkt., 15c; 1/8 oz., 50c.



Sweet William



## CANNA ROOTS

City of Portland. 4½ ft. Rosy pink, green foliage. \$1.50 per dozen.

**KING HUMBERT.** 4 ft. Leaves are purple-brown over bronze. Crowned with immense heads of velvety orange-scarlet. \$1.50 per dozen.

**PRESIDENT.** 4 ft. The most wonderful green leaved, red flowered canna in cultivation. \$1.50 per dozen.

**YELLOW KING HUMBERT.** 4 ft. Green leaves, golden-yellow flowers blotched red. \$1.50 per dozen.

All Cannas \$10.00 per 100—For postage add 30c doz. or 60c per 100

## GLOXINIA

Etoile de Feu—Red Emperor William—Violet  
Emperor Frederick—Scarlet & White  
Montblanc—White Prince Albert—Blue  
Above colors or Mixed—40c each; \$4.50 dozen.

## HYACINTHUS CANDICANS

An ornamental midsummer flowering plant, producing from 20 to 100 large bell shaped flowers of a creamy white color on spikes 3 to 5 feet high. 12c each; \$1.25 doz.

## PERUVIAN DAFFODIL

(ISMENE CALATHINA)

Summer-flowering bulb with large, amaryllis-like, pure white fragrant blossoms. 2 in. size. 50c each. \$5.50 per doz.

## DAHLIAS

Dahlias do well in almost any kind of soil, but thrive best in a medium loam. The tubers should be planted in a horizontal position, with the sprout up and about four inches below the surface; they should be set three or four feet apart each way, in deeply spaded soil. Mulch with peat moss and allow only one shoot to stand. A good plant food applied just as the buds start to form will increase the size and improve the color of the blooms. If large exhibition blossoms are desired, it is absolutely necessary to disbud. After the frost has killed the flowers, the roots should be removed from the ground, allowed to dry for two or three days, and then stored away in peat moss in a cool, dry, dark place, where frost will not reach them.

A—8 to 12 inches B—4 to 8 inches  
M—Miniature 2 to 4 or 6 inches  
C—Cactus ID—Informal Decorative  
SC—Semi-Cactus FD—Formal Decorative  
STC—Straight Cactus IC—Incurved Cactus

**ADA N.** (ID-A) Purple. \$1.00 each.

**ARTHUR GODFREY.** (FD-A) Orange blend. \$1.00 each.

**BRIDES BOUQUET.** (A) White. 75c each.

**CHEROKEE BRAVE.** (A) Dark Red. 75c.

**HYPNOSE.** (A) Variegated. \$1.20.

**JANE LAUSCHE.** (A) Variegated. 75c.

**JOHN BUTTERWORTH.** (A) Variegated. \$1.00.

**NEW PEACH.** (A) Peach. 60c.

**POWDER PUFF.** (ID-A) Lavender. \$1.00.

**SUNSHINE.** (ID-A) Large yellow. 50c each.

**VIRGINIA TOGGERT.** (A) Variegated. \$1.00.

**IMPORTED HOLLAND DAHLIAS.** 35c each.

6 Decorative Varieties—6 Catus Varieties. 1 Doz. Tubers (1 of each) \$3.50.

**FLIRT.** (C) Soft Yellow.

**FATHER JUSTINUS.** (D) Salmon Orange with yellow center.

**GENERAL EISENHOWER.** (C) Blood Red.

**GERRIE HOEK.** (D) Deep Pink.

**GLORY OF HEEMSTEDE.** (D) Yellow.

**HOUSE OF ORANGE.** (D) Soft Orange.

**MARGARET ROSE.** (C) Salmon Pink with soft yellow.

**ORFEO.** (C) Deep Purple.

**PRIDE OF HOLLAND.** (C) Deep Pink.

**PURITY.** (C) Pure White.

**RED & WHITE** (D) Red with White Edges.

**SNOWSTORM.** (D) Pure White.

## Hardy Lilies



## LILIES

**AURATUM** (Gold Banded Lily) Japan. 4-6 ft. Blooms in July. White flowers with gold bands on petals. Fragrant & showy. 8-9 inches. 60c each.

**CROFT.** Hardy pure white Easter lily type, 24 in. tall, bulbs. 69 each. 3 for \$1.95.

**HENRYI** (Yellow Speciosum) China. 5-6 ft. Blooms in August, Flowers orange, spotted brown. Vigorous. 65c ea.; 3 for \$1.75.

**Regal.** White shading to yellow in the center with pink tinge on outer edge. Height 3 to 5 ft. Bulbs 8-9 inch size. 40c ea.; 6 for \$1.85.

**Spec. Rubrum Magnificum.** Deep pink, healthy. Bulbs 8-9 inch size. 65c ea.; 3 for \$1.75.

**TENUIFOLIUM** (Coral Lily). Brilliant scarlet flowers on slender stems. 8-9 inches.

**FIRE KING.** A fire red hardy garden lily blooms in une with horizontal to slightly upright flowers in quantities about the size and shape of Regale. It is a stem rooting lily and should be planted about 10 inches deep. 8"-9" bulbs. \$1.15 ea.

## AMARYLLIS

**GIANT ROYAL DUTCH.** Dark-red, white, or pink, \$2.50 each.

**AMERICAN HYBRIDS.** Red or pink, 75c each.

## TUBEROUS ROOTED BEGONIAS

Especially adapted to window or conservatory culture. Double scarlet, pink, yellow. 30c each; \$3.50 dozen.

## BLEEDING HEARTS

A beautiful hardy garden plant of graceful habit, 2 to 3 feet high. The foliage is of a highly ornamental fern-like appearance, over which hang the drooping spikes of pink, heart-shaped flowers. Blooms in May and June. Can be lifted and potted for winter and spring bloom indoors. 85c each.

## EXCELSIOR PEARL TUBEROSE

One of the most fragrant and most popular of the summer flowering bulbs. May be started early in hot-beds or pots, or planted in open ground after the first of May. 15c each; \$1.50 per doz.; \$12.00 per 100.

## CALADIUM ESCULENTUM OR ELEPHANT'S EAR

Large bulbs, 9-11 inch. 30c each; \$3.00 per dozen; medium sized bulbs, 5-7 inch. 20c each; \$2.00 per dozen.

## FANCY LEAVED CALADIUMS

Separate Colors or Mixed. 35c each; \$3.60 dozen.



# GLADIOLI

## MANN'S BULBS ARE 1½ TO 2 INCHES

(We recommend bulbs not over 2 inches in diameter for best blooms.)

Via Parcel Post add 20c per 10; 60c per 100

**CULTURAL SUGGESTIONS:** Set bulbs 4 inches deep and 6 inches apart, either in rows or massed in beds, borders or among shrubbery. Successive plantings from April to July will bloom from July until frost.

### SMOKIES AND OTHER COLORS

**ELMER'S ROSE.** (85 days) Deep rose, heavily ruffled. Opens 7-8 well placed blooms on a 20 bud spike. Very fine new variety.

**BUCKEYE BRONZE.** (90 days) odd shade of old rose and bronze with shading of orange. 6 to 8 open florets, wonderful for florists's use.

### WHITE

**FLORENCE NIGHTINGALE.** (80 to 85 Days) Very fine white, slightly on the creamy side. Florets are frilled about 7 open at once.

**SALMAN'S GLORY.** (65 to 75 days) Large creamy white with large showy red blotch edged yellow.

### YELLOW AND CREAMS

**GOLD.** (80 days) Ruffled deep golden yellow. Opens 5 blooms of larger than 4" florets on very sturdy tall stem.

**WHITE GOLD.** (70 days) Very large 5 inches and over. Cream colored florets, heavy tall plant and excels for its early blooming qualities.

**LEAF ERICSSON.** (85 days) Outstanding lovely deep cream that opens 8 to 11 lightly ruffled florete on husky 5½ ft. spikes.

**SPOT LIGHT.** (Large—80 Days) Large, ruffled deep yellow.

**YELLOW HERALD.** (70 Days) Early, amber yellow, carmine in throat.

### ORANGE

**ORANGE GOLD.** (80 days) Bright true orange with a golden throat. Very tall healthy grower with 6 to 7 5" blooms on a 4 ft. spike.



### BLUE

**BLUE BEAUTY.** (Large—85 days) Medium light blue with edges overlaid violet blue.

### LAVENDER

**LAVENDER PRINCE.** (85 days) Clean, rich deep ruffled lavender. Show winner.

**ELIZABETH THE QUEEN.** (Giant—90 Days) Beautiful clear mauve with darker lines in the throat.

### PINK

**GEN. EISENHOWER.** (Huge—75 Days) Strong grower, deep rose-pink.

**MARGARET FULTON.** (Medium—70 Days) Clear soft rich dark salmon. 6 to 8 perfectly placed florets open.

**EARLY ROSE.** (70 days) Deep rose-pink. Good cut-flower. Ideal for florists and in the garden.

**FRIENDSHIP.** (70 days) One of the earliest varieties. Good early pink, clean white throat.

**PICARDY.** (Giant—85 Days) Soft shrimp pink. A blotch of light flesh pink shading to shrimp pink at edges. 7 to 10 florets open at a time.

### PURPLE

**SHERWOOD.** (80 days) Grows 5 feet or more tall with 7 large beautiful purple open flowers that shade to a darker blotch. Heavily ruffled.

**THE RAJAH.** (88 days) Royal purple shade. Large ruffled florets with many open. One of the finest purples.

### RED

**BURMA.** (85 Days) Very deep rose red with heavily ruffled blooms.

**MANSOER.** (82 days) Majestic blood-red tinted velvety black. 6-8 florets open at one time on a straight strong stem.

**SANS SOUCI.** (85 days) Tall, strong, clear scarlet with a narrow white line on the lower petal. 7 to 8" 5 blooms open at once.

**STOPLIGHT.** (90 Days) Beautiful large glistening deep red.

**VALERIA.** (70 Days) Large bright scarlet red.

### PRICES

VARIETY	EACH	10	PER 100
BLUE BEAUTY	\$.10	\$.90	\$8.00
BUCKEYE BRONZE	.10	.90	8.00
BURMA	.10	.90	8.00
EARLY ROSE	.10	.90	8.00
ELIZABETH THE QUEEN	.08	.70	6.75
ELMER'S ROSE	.15	1.20	10.00
FLORENCE NIGHTINGALE	.08	.70	6.75
FRIENDSHIP	.10	.90	8.00
GEN. EISENHOWER	.10	.90	8.00
GOLD	.15	1.20	10.00
LAVENDER PRINCE	.10	.90	8.00
LEAF ERICSSON	.10	.90	8.00
MANSOER	.08	.90	6.75
MARGARET FULTON	.08	.70	6.75
ORANGE GOLD	.10	.90	8.00
PICARDY	.08	.70	6.75
THE RAJAH	.15	1.20	10.00
SALMAN'S GLORY	.09	.80	7.00
SANS SOUCI	.10	.90	8.00
SHERWOOD	.10	.90	8.00
SPOTLIGHT	.10	.90	8.00
STOPLIGHT	.11	.90	7.50
VALERIA	.08	.70	6.75
WHITE GOLD	.10	.90	8.00
YELLOW HERALD	.11	.90	7.50

## GLADIOLUS MIXTURES

### MANN'S SPECIAL VARIETY MIXTURE:

25 Bulbs (mixed) 1 of each listed .....\$1.95

100 Bulbs (mixed) 4 of each listed .....\$7.25

100 Bulbs—10 ea. any variety, at 100 rates.

### MANN'S SUPERIOR RAINBOW MIXTURE:

10 for .60c; 25 for \$1.35; 100 for \$5.00



# ROSE BUSHES

Top Grade Only—Properly Packaged To  
Retain Their Fresh Vigorous Quality



## U. S. Plant Patented Hybrid—Tea

3 or More, Less 10%

Patented varieties not listed can be supplied on order at patentees published price.

<b>BURNABY</b> , Light yellow .....	\$2.50
<b>CHARLOTTE ARMSTRONG</b> (455) Deep glowing rose .....	2.25
<b>CHRYSLER IMPERIAL</b> (1167) Distinctive brilliant red .....	2.50
<b>FORTY-NINER</b> (792) Orient-red and chrome-yellow .....	2.25
<b>HELEN TRAUBEL</b> (1028) Two toned petals, pink flushed apricot .....	2.50
<b>LOWELL THOMAS</b> , Clear Canary Yellow .....	2.25
<b>MIRANDY</b> , Giant Deep Crimson. Very Fragrant .....	2.25
<b>MOJAVE</b> (1176) Glowing cooper-orange, sweetly fragrant .....	2.75
<b>NOCTURNE</b> , Cardinal-red and Maroon .....	2.25
<b>NEW YORKER</b> , Firey red, Fragrant .....	2.25
<b>PEACE</b> (591) Yellow with edges picoted cerise .....	2.50
<b>PINK FROST</b> , Huge, fragrant pink blossoms .....	2.50
<b>PRESIDENT EISENHOWER</b> , Clear brilliant red .....	2.25
<b>SLEIGH BELLS</b> , White with creamy center .....	2.25
<b>TIFFANY</b> (Pat. Pend.) Dainty pink with a heart of gold, fragrant .....	2.50

## Patented Grandifloras

Tall class of roses with profuse large flowers in clusters on stems long enough for cutting.

<b>BUCCANEER</b> (1119) Buttercup yellow, very sweet fragrance .....	\$2.50
<b>MONTEZUMA</b> , Bright Salmon-pink .....	2.75
<b>QUEEN ELIZABETH</b> (1259) Grandiflora. Handsome pink blooms .....	2.50

## Floribundas

Constantly blooming, clustered small roses.

<b>CIRCUS</b> , Red and Yellow, Very Colorful .....	2.50
<b>FASHION</b> , Coral Peach .....	2.00
<b>SPARTAN</b> , Burnt-orange buds opening to redish coral, with sweet fragrance .....	2.75
<b>RED PINOCCHIO</b> , Velvety-red .....	1.75
<b>WHITE BOUQUET</b> , A lovely new white rose with gardenia-like flowers of opulent white and sweet spicy fragrance .....	2.50

## Select Everblooming Hybrid-Tea

\$1.50 each, any 3 for \$4.00

<b>AMI QUINARD</b> , Blackish maroon
<b>K. A. VICTORIA</b> , Double pure white
<b>POINSETTIA</b> , Long buds, poinsettia-scarlet
<b>RADIANCE</b> , Cameo-pink; large, intensely fragrant.
<b>RED RADIANCE</b> , Very large, long-lasting; intensely fragrant, clear, even red, tall.
<b>TALISMAN</b> , Golden yellow and copper; long-lasting.
\$1.85 ea. any 3 for \$5.00

<b>CRIMSON GLORY</b> , Deep crimson, fragrant.
<b>ECLIPSE</b> , Rich gold.
<b>ETOILE de HOLLAND</b> , Bright red, large, loose, semi-double, very fragrant.
<b>GOLDEN CHARM</b> , Yellow sport of Talisman
<b>MCGREDY'S IVORY</b>
<b>MCGREDY'S SCARLET</b>
<b>PICTURE</b> , Clear rose-pink.
<b>PRES. HERBERT HOOVER</b> , Maroon and orange, two-tone. Vigorous, upright, free blooming.
<b>SOEUR THERESE</b> , Buttercup yellow.

## Climbing Roses

<b>BLAZE</b> , Vigorous, scarlet, recurrent bloomer .....	\$1.50
<b>CLIMBING CRIMSON GLORY</b> .....	2.50
<b>CLIMBING PEACE</b> .....	2.25
<b>CLIMBING SOEUR THERESE</b> .....	1.65
<b>GOLDEN SHOWERS</b> , Daffodil yellow, long pointed buds, fragrant .....	3.00
<b>CLIMBING TALISMAN</b> .....	1.50

## STAR ROSES

are also available, on order  
AT ADVERTISED PRICES

## Flowering Shrubs

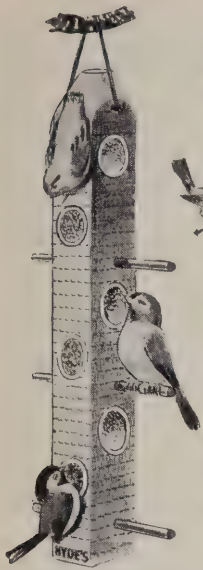
Bridal Wreath. _____	1.80
Dwarf Burning Bush. _____	1.95
Forsythia. Lynwood Gold _____	1.90
Forsythia. Spring Glory _____	1.80
Lilac. Single, Purple _____	1.80
Lilac-French Hybrids _____	2.25
Charles Joly. Double, dark crimson.	
Mock Orange. Double _____	1.80
Pink Almond _____	1.95
Red Quince. Upright _____	1.95
Snowball. _____	1.95
Sweet Shrub. _____	1.80
Weigela. Red _____	1.95
Weigela, Eva Rathke. Trumpet, crimson flowers _____	1.95

## Hedge Plants

<b>Barberry Thunbergi</b> —2 year .....	10 for \$2.65
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# BIRD HOUSES—FEEDERS—FOODS—BATHS

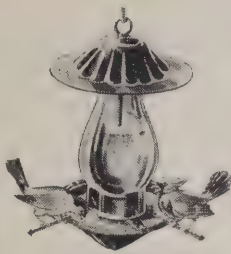


## COMMUNITY DINER

Especially for perching birds, catbirds, mockingbirds, cardinals, purple finches, etc. No. CDD. Filled. \$1.95.

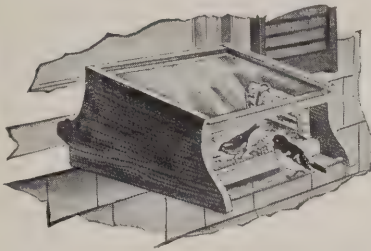
### Chicadee Tidbits (CT24)

Refills for above box of 24 cups. \$1.29.



## I'm Diogenes

Seeks out hungry birds. Feeds seed automatically. Authentic old-fashioned lantern design. Made of sturdy, shaped metal. Glass chimney. Easy to install. No. IDA. \$5.95.



## BIRD CAFE

Attaches easily outside any window sill. Installs from inside, using only a screwdriver. Glass top No. W16 ..... \$5.95 No. W25 ..... 6.95

## WILD BIRD SEED

Contains Millet, Sunflower, Peanuts, Kaffir-milo, Canary Seed, Buckwheat, Fancy hulled oats, Wheat & Broken Rice. Carefully blended and balanced food prepared to attract a wide variety of bird life. Highest feeding value per dollar; contains no cheap fillers nor feed mill screenings.

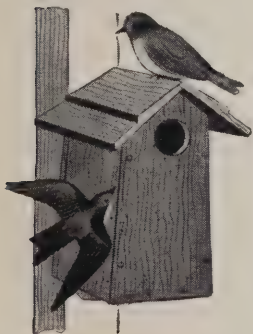
5 lbs ..... 75¢ 25 lbs ..... \$3.50  
100 lbs ..... \$12.00.



**SUNFLOWER**, Giant plump seed, 3 lbs., \$1.00; 5 lbs., \$1.50; 25 lbs., \$5.75; 100 lbs., \$21.00. Let us quote larger quantities.

## HYDCAKES

Pressed and molded Hydcakes are a scientific achievement. Developed by our own ornithologist; guaranteed pure, fresh, wholesome. Two styles: Bird Banquet No. BB2—Pressed Peanut Cake; Bird Snack No. SS1—Seed Suet Cake. Either Cake, 35c each. 3 for \$1.00.

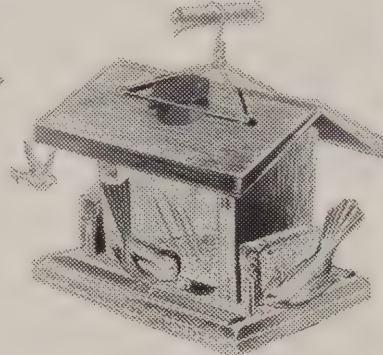


- V1. The Wren ..... \$3.95
- V2. The Chickadee ..... 3.95
- V3. The Bluebird ..... 3.95
- V4. The Robin ..... 3.95
- V5. Woodpecker ..... 6.95
- V6. The Flicker ..... 7.96



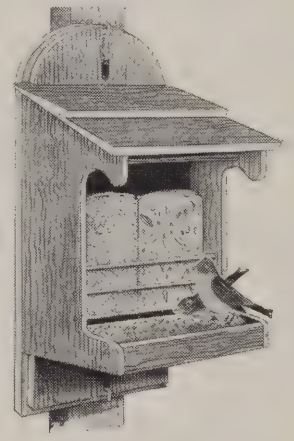
## St. Francis Feeder

Blue Ceramic background sets off life-like statue at its best. Automatic seed reservoir holds 5 lbs of seed and releases it as needed at base of statue. Size 7½" x 9" x 11" ..... \$5.95



## Bird's Filling Station

Holds two kinds of cake, 4 to 5 lbs. seed. Automatic fill from clear view hopper. Won't tip or spill. No. BH52. .... \$4.95



## Bird Cafeteria

Holds two suet-cakes and a pound of Wild Bird Food that feeds down automatically from reservoir back of cakes. Width 7", Depth 6", and Height 14". ..... \$3.95



## BIRD BATHS

- #19 Pink ..... \$6.00
- #19 Blue ..... 6.00
- #18 Bisque ..... 5.00
- #18 Green ..... 5.75
- #16 White ..... 11.85

### Stone Veneer Finish

- 18 in. dia. x 24 in. high ..... \$7.50
- 23 in. dia. x 30 in. high ..... 10.50

## PRIDE OF THE VALLEY FEEDING STATIONS

### Built of Genuine California Redwood

- No. 2 Ranch Type. Glass front and back, 3 point suspension 12" x 9½" x 8" ..... \$5.50
- No. 3 4 POINT SUSPENSION Glass front and back. 9" x 8½" x 9" ..... \$4.95
- No. 5 WALL FEEDER. Glass front. 8" x 5½" x 7" ..... \$3.35
- No. 11 CHIMNEY FEEDER. Wall type for hanging from wall post or tree. 12" high. .... \$3.25
- No. 15 FEEDER. .... \$2.95



# Dust and Spray Guide

See pages 46 and 47 for additional information

INSECT OR DISEASE	DESCRIPTION	MATERIAL TO USE (See List)	WHEN TO APPLY
Ants	Sweet or grease eating.	Magikill-J	When ants appear.
Aphis	Small green, red or black lice feeding on the tender terminal growth of many plants.	C-E-X-K	When pests first appear. Wet insects thoroughly. Repeat as necessary.
Asparagus Beetles	Olive colored, both adults and grub like larvae.	E-N-S	When grubs first appear, preferably when plants are wet with dew.
Bag Worm	Builds ½-inch to 2-inch tapering bag-web.	A-M-P-X	When insects first appear or when evidence of feeding is observed. Repeat as needed.
Bean Beetles	Copper-colored beetles with eight black spots. Yellow larvae, which also devour leaves.	E-K-M-N-S	When pests first appear.
Black Rot	(Grapes) Fungus disease. Shows first as small white spots, later surrounded by brown ring.	B-F-L-Q	When leaf buds first open. When shoots are 10 to 15 inches long. Just after blossoms fall.
Blights	Diseases that attacks young shoots and leaves, causing brown or black spots and sudden wilting.	B-F-Q-T-Y-I	Make first application when growth starts in spring. Repeat weekly until plants start blooming.
Brown Canker	Disease which develops small purple spots on stems and leaves of roses, later turning to light center with purple margin.	B-F-Q	As above.
Cabbage Looper Cabbage Worm	Pale green-white, striped caterpillar. Doubles or loops as it crawls.	A-E-N-S-X-K	When larvae first appear.
Caterpillars	Woolly or naked. Feed on leaves.	A-E-M-P-S-X	When insects first appear or when evidence is observed. Repeat as needed.
Celery Leaf Tier	Pale green or green striped caterpillars.	A-E-P-X	Stop spraying 3 weeks before harvest.
Corn Earworm	Green worm which eats into ears of corn.	A-M-D Corn Earworm Drops	Apply to silk when it first shows through the tips of each ear. Repeat two or three times within week.
Cucumber Beetles	Yellow and black striped.	A-E-I-S-X	When vines begin to run. Repeat at frequent intervals.
Cut-Worms	Destroy plants by cutting stems.	Snarol-S-K	When first appear.
Damping Off	Causes plants to suddenly wilt as though rotted at the ground level.	Semesan Formaldehyde	Treat seed or soil.
Downy Mildew	White, down mold on pods of lima bean, or under side of melon leaves.	B-F	At weekly intervals.
Flea-beetles	Extremely small black beetles on blades of grass.	G-K-S	During warm weather.
Grape Berry Moth	Lays eggs from which small worm develops in fruit.	E-S-K	Just after blossoms fall. Repeat at monthly intervals until July.
Grubs	White or colored larvae.	A-D-J	Apply to soil, Fall or Spring.
Horn (Tomato) Worms	Large green worms.	A-E-Rothane	When bugs or worms first appear.
Japanese Beetles	Bronzy-green about ¾ inch long.	J-D-A	When first appear.
Leaf Beetles	Yellow beetles with twelve spots on wings.	A-E-N-S-X	When pests first appear. Repeat at weekly intervals.
Leaf Hoppers	Small greenish insects that suck plant juices.	C-E-N-X-K	When pests first appear. Repeat as necessary.
Leaf Spot	Fungus disease causing brown spots on leaves.	B-F-Q-Y	Repeat at intervals.
Mealy Bug	White, cottony appearance.	E-V	Every few days until under control.
Mites	Very small sucking insects on azaleas, Holly, etc.	H	Protect new growth and repeat as necessary.
Potato Bug or Blister Beetles	Gray, black or striped beetles up to ¾ inch long.	A-D-P-X-G	Spray or dust plants as soon as they break through and every ten days thereafter.
Powdery Mildew	White growth on leaves.	B-F-Q	When white growth makes its appearance.
Red Spiders	Small mites that feed on foliage, causing it to assume a rusty appearance.	H-V-K	When pests first appear; on strawberry use Strawberry Dust (85-15).
Rose Beetle	Long-legged clay-colored beetles on roses and peonies.	A-E-S-X	When pests first appear. Repeat at weekly intervals.
Rust	Orange-colored pustules (fungus) in streaks or patches on leaves or stems.	B-Q-V	When first appears, or early and weekly as a preventative.
Scale	Attacks bark of tree.	L-R	As late dormant spray.
Spittle Bug	Bug surrounded by foamy substance.	D-C-E-J-S	When first appear. Spray must penetrate foam, repeat as necessary.
Thrips	Tiny winged or wingless insects that rasp leaves and suck juices from plants.	D-C-E-X-G	When pests first appear. Repeat as necessary.
White Flies	Small whitish flies. In larval stage, tiny, scale-like, greenish objects.	E-O-V-H	When pests first appear. Repeat as necessary.

## LIST OF MATERIALS INDICATED IN ABOVE CHART

A—Arsenate of Lead.  
B—Bordeaux, Kopper King.  
C—Black Leaf 40.  
D—DDT.  
E—D-X, Red Arrow, Evergreen.  
F—Dusting Sulphur, Fungitrogen.  
G—Dieldrin.  
H—Aphid & Mite Spray.

I—Cucumber-Melon Dust  
J—Chlordane.  
K—Parathion, Malathion.  
L—Lime Sulphur Solution.  
M—Garden Guard.  
N—Rotenone Dust.  
O—Fish Oil Soap.  
P—Paris Green, Red River Potato Mix.

Q—Sulfocide.  
R—Sealcide, Scalatox.  
S—Hytox.  
T—Tomato Dust.  
V—Emo.  
X—Nicotine-Pyrox.  
Y—Dithane.

Materials marked (\*) are non-poisonous when used as directed. Pyrethrum and Rotenone base materials such as DX and Red Arrow are contact sprays and must strike the insects to be effective.

D.D.T., Parathion, Malathion Control: Flies, Mosquitoes, Gnats, Horn Flies, Lice, Fleas, Sheep Ticks, Ants, Wasps, Hornets, Codling Moth, Mealy Bug, Japanese Beetle, Leaf Hoppers, Oriental Fruit Moth, Peach Borer, Rose Shafter, Cabbage Worm, Flea Beetles, Onion Thrips, Tomato Fruit Worm, Caterpillars, Borwood Leaf Miners and many others. Ask for special DDT folder and use with caution.





# ACME INSECTICIDES



## ACME ALL ROUND SPRAY



A multi-purpose wettable powder for protection against both insects and diseases. Effective on flowers, fruits, and vegetables. 1 lb., \$1.29; 3 lb., \$2.45

## ACME BORDEAUX MIXTURE



Standard Copper Fungicide. Controls many diseases of fruit trees, grapes, potatoes, flowers and shrubs. Repels leafhoppers and flea-beetles. 1 lb., 95c; 4 lb., \$2.00

## ACME 6% CHLORDANE DUST



AN EFFECTIVE ANT KILLER. On lawns—for ants, chiggers, chinch bugs, grubs. In gardens—for cutworms, earwigs, mole crickets, sowbugs. 1 lb., 65c; 4 lb., \$1.65

## ACME 45% CHLORDANE SPRAY



Widely accepted for termite control, lawn and flower garden soil insect control, crickets, spiders, carpet beetles, box elder bugs, and others. 8 oz., \$1.15; Qts., \$3.15; Gal., \$11.75

## ACME DIELDRIN 18



SENSATIONAL CONTROL OF SOIL AND LAWN INSECTS. Also kills household pests such as roaches, silverfish, carpet beetles, box elder bugs, termites, and others. (Newest termite control) 8 oz., \$1.35; Qt., \$3.75; Gal., \$13.25

## ACME DIMITE



Red spider and mite spray (25% DMC). A specific control for red spiders, European and red mite, spruce mite, Cyclamen mite, clover mite. 8 oz., \$1.35; Qt., \$3.75; Gal., \$13.25

## ACME DURADUST #50



50% DDT WETTABLE POWDER. The most economical form of DDT. Kills insects on trees, vegetables, fruits, and around buildings. 1 lb. 90c; 4 lbs. \$1.40

## ACME EMO-NIK



OIL-NICOTINE SPRAY. Kills Azalea lace bugs and white fly. Enhances appearance of foliage. Also kills thrips, red spiders, mites, mealy bugs and all types of scale insects.

4 1/2 oz., 55c; Pt. \$1.00; Quart, \$1.60.

## ACME FRUIT TREE SPRAY



PROFESSIONAL RESULTS FOR THE HOME ORCHARDIST. A 12% Captan, 12% Methoxychlor, and 6% Malathion multi-purpose spray concentrate. 12 oz. makes 9 gallons of spray. 12 oz. can, \$1.45; 2 lb. can, \$3.25

## ACME GARDEN FUNGICIDE



NEW MODERN FUNGICIDE. (Contains 30% Captan, 3% Karathane). Excellent control for black spot and powdery mildew on roses and a host of other diseases on numerous plants. 1/2 lb. can, \$1.40.

## ACME GARDEN GUARD



SAFE ON GARDEN VEGETABLES (1% Rotenone Spray or Dust) Harmless to humans or pets. Use safely right up to harvest without fear of harmful residues. 1 lb., 69c; 4 lb., \$1.75; 50 lb., let us quote.

## ACME LIME SULFUR SPRAY (LIQUID)



DORMANT SPRAY. Use on trees, roses, shrubs and nursery stock before sap returns, to kill scale insects, rusts, and mildew. Qt., 95c; Gal., \$2.75

## ACME 5% LINDANE SPRAY



Kills wide range of insects; has long residual effectiveness. Useful in control of hard-to-kill bugs on foliage, both indoors and out. Excellent shade tree insecticide. 4 oz., .85c; Pt., \$2.50

## ACME 50% MALATHION SPRAY



WIDE RANGE PERFORMING INSECTICIDE. Kills aphids, mites, mealy bug, scale and many insects attacking all plants. Oz., 50c; 4 oz., \$1.25; Pt., \$3.00; Qt., \$4.50; Gal., \$11.25

## ACME RED RIVER POTATO MIX



(1 to 1 1/2 lbs. makes 12 1/2 gals., or as dust)

A copper fungicide with quick-killing arsenic. Kills potato bugs, drives off flea beetles and leafhoppers, prevents blight, stimulates foliage, producing more and better potatoes. 4 lb. bag, \$3.15.

## ACME ROSE DUST



A ROSE LOVER'S DREAM. Contains 7% Captan for black spot; .75% Karathane for powdery mildew; 4% Malathion (premium grade) for aphids, thrips, lacebugs, many other insects; and 5% DDT for rose chafer and other beetles. Colored green to blend with foliage. Use as dust or spray. 8 oz. squeeze duster, \$1.39; 2 lb., \$2.25.

## ACME DUSTING SULPHUR



For garden and lawn use. Controls mildew, black spot, leaf spot, and mites; on roses, chrysanthemums, snapdragons, dahlias. Very effective for chigger control in lawns. 2 lbs., 85c

## ACME TOMATO DUST



Contains Basic Copper Arsenate and Basic Copper Sulphate for control of hornworm, fruit worm, flea beetle, early and late blight. 1 lb. will cover 75 to 120 plants one application. 1 lb., 79c; 4 lbs., \$1.85.

## ACME HOZ-IT-ON

### LAWN INSECT KILLER

Contains 16% Chlordane. Pint covers 2500 sq. ft.

Pt. (with hose nozzle) ..... \$2.00

Qt. (refill) ; ..... \$2.75

### FLOWER & SHRUB SPRAY

Contains 5% Malathion; 10% DDT. Pt. makes 5 gals. of spray.

Pt. (with hose nozzle) ..... \$2.00

Qt. (refill) ..... \$2.75



# SPRAYS INSECTICIDES DUSTS

## AGRI-MYCIN 100

Contains 15% streptomycin & 1.5% Terramycin.  
2.4 oz. btl., \$2.95; 9.34 oz. btl. \$7.20

## ARNOLD CARTRIDGES

**Arson-O-Spray.** For chewing insects. DDT. Most effective on chewing insects.

**Lindane Spray.** For control of aphids Pyrethrum Rotenone. Insecticide for use on flowers, vegetables and fruit.

**Nic-O-Spray.** Nicotine.

All Cartridges, 40¢ each  
Arnold Sprayer. Chrome \$6.95



**ANT KILLERS**  
ANTROL 15c each;  
4 for 50c

**ANTROL SYRUP**  
4-oz. bottle 25c

**ANTROL AFRICAN VIOLET**  
BOMB. 6 ozs. 89¢

**ANTROL ROSE SPRAY FLOWER**  
BOMB. 15 oz. \$1.59.

**ANTROL SPRAY (Chlordane)**  
with sprayer. Pint, 89c; qt., \$1.19.



**ANTROL ANT TRAPS.** 25c Each.  
**ANT-X TRAP** 25c Each.  
**ANT-X JELLY** 1 oz. 35c  
**ANT X POWDER** 35c Each

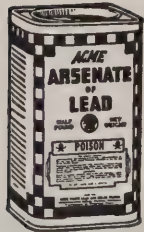
**MAGIKILL**  
JELLY. 1 oz., 40c;  
8 oz., \$1.00.

(Also see Chlordane)  
**ARSENATE OF LEAD**

(1 lb. makes 25 to 35 gallons)

Lb., 50c, 4-lb., \$1.65  
**ARSENITE OF ZINC**

(1 lb. makes 50 gals.)  
1 lb., 40c; 4 lbs., \$1.15.



## BENZO-FUME POWDER PRESSURE FUMIGATORS

For control of greenhouse red spider. ½ lb. for 5,000 cu. ft. ½ lb., 45c; 12 for \$4.25.  
1 lb., 70c; 12 for \$7.00

## "BLACK LEAF 40"

(1 oz. makes 6 gallons)

Oz., 49c, 5 ozs., \$1.39; 1 lb., \$2.98;  
2 lbs., \$5.29, 5 lbs., \$7.60.

**BLUE STONE** (see copper sulphate)

## CAPTAN (Fungicide)

1 lb., \$1.95; 5 lbs., \$4.50; 50 lbs., \$40

## CARBOLA—WITH LINDANE

(10 lbs. makes 5 gal.)  
5 lbs., 95c; 10 lbs., \$1.50; 50 lbs., \$6.30.

## CARBOLINEUM—AMERICA

Kills chicken mites and blue bugs in poultry houses, makes wood Termite proof and Stops Rots.  
Gal., \$3.00; 5 gal, \$12.00.

## CARBON B1-SULPHIDE

For control of insects in grain; 1 qt. per 100 bu.  
Qt., .90c; gal. (approx. 10 1/3 lbs.), \$2.60.

## CATALIZER

Combined adhesive and spreader, making spray materials more economical and effective. Use 2 pounds to each 100 gallons of spray.  
2-lb. pkg., \$1.00.

## 6% CHLORDANE DUST

A multi-purpose insecticide that kills by contact. A sure ant killer and controls soil insects such as Japanese beetle grub, wireworm, cabbage maggot and cutworms; 1 lb. covers 250 sq. ft.  
8 oz. squeeze, 79c; lb., 60c; 5 lb., \$1.65

## 46% CHLORDANE EMULSION

A product used by exterminators with marvelous success to control termites: 1 gal. makes 25 gals. of solution and treats 25 linear feet. Gives outstanding control for ants, Japanese beetle grubs, and wireworm. Has long residual effect.  
Pt., \$1.95; Qt., \$3.29; Gal., \$12.25.

## CHLORDANE ROACH AND ANT SPRAY (AEROSOL)

An effective formulation to destroy crawling insects. When applied properly, and thoroughly, it will continue to kill roaches, ants, crickets, silver fish, spiders and carpet beetle for many months.  
10 oz. bomb, 98¢

## 2% CHLORDANE ROACH AND ANT SPRAY

A residual household insecticide for use against silverfish, black widow spider, carpet beetle, dog ticks, ants and roaches in homes, kennels, restaurants, and industrial buildings. Also available in 5, and 50 gallon drums.

Pts., 69¢; Qt., \$1.05

## 40% CHLORDANE WETTABLE POWDER

Excellent for use on lawns, parks, nursery stock and ornamental plants. Long residual effect controls Ants, Chiggers, Crickets, Mosquitoes, Spiders and Ticks.

1 lb., \$1.45; 4 lb., \$3.50

## COPPER ARSENATE

(Basic) 4 lbs., \$2.00.

## COPPER SULPHATE

(Blue Stone)

Powdered: 25¢ lb.; 10 lbs., \$2.20  
Crystals: 5 lb., \$2.15.

## CORN EAR WORM DROPS

(2 ozs. treats 100 ears)  
2 oz., 39c; quart, \$1.10.

## CROW REPELLENT

1 pt. treats 2 bu. corn, 60c.

## CUCUMBER-MELON DUST



A new formula of Cucumber - Melon Dust with the versatile insecticide Lindane and multi purpose fungicide Zineb. Designed especially for the home gardener who grows melons

and cucumbers and other cucurbits.  
Lb., 89c; 3 lb., \$1.49

## Cuprinol Wood Preservative

(See page 59)



**CYANOOGAS ANT KILLER**—A gas-producing powder. 4-oz. spout can is enough to treat ant nests in average lawn. 40c. 4 oz., 50c.

**CYANOOGAS A-DUST**—Kills, rats, moles, woodchucks (groundhogs) and other rodents instantly. "It's the gas that kills 'em."  
1 lb., \$1.25; 5 lbs., \$4.25; 25 lbs., \$13.75

**CYANOOGAS G-FUMIGANT**—Most widely used greenhouse insecticide. Regular use insures insect-free house all season.  
5 lbs., \$4.25; 25 lbs., \$13.75.

## 5% D.D.T. DUST

A ready to use D.D.T. Dust. Superior results when used in controlling thrips in growing gladioli and for gladioli corms in winter storage. Also useful in homes for ants, bedbugs, carpet beetle, etc.  
1 lb., 57¢; 5 lb., \$1.35

## D.D.T. (Liquid)

25%—1½ oz., 35c; ½ pt., 85c;  
1 qt. \$1.49; gal., \$4.65.  
30%—pt., \$1.05; Qt., \$1.69;  
Gal., \$4.30.





REG. U.S. PAT. OFF.

#### APHID AND MITE SPRAY

1 oz., 59¢; 4 oz., \$1.25; 16 oz., \$3.25

#### DU PONT FERRO "FTE"

(Fritted Trace Elements)

1 lb., \$1.00; 5 lb., 2.95.

#### DU PONT FERMATE FUNGICIDE

8 oz., makes 20 to 38 gal., \$1.00;  
3 lb., \$2.25.

#### DU PONT FLORAL DUST

8 oz., 98c; 1 lb., \$1.25; 3 lb., \$2.75.

#### DU PONT FRUIT TREE SPRAY

1 lb. makes 13 gal., \$1.25; 3 lb.  
makes 39 gal., \$2.75

#### 50% METHOXYCHLOR

(Marlate)

(Wide range—low toxicity)

8 oz. makes 15 to 32 gal., \$1.15  
4 lb., \$3.40.

#### ROSE INSECTICIDE & FUNGICIDE

8 oz. Squeeze Dusters, \$1.49.

1 lb. Canister, \$1.69.

3 lbs. \$3.75.

#### ROSE SPRAY DUSTER

12 oz. Aerosol, \$1.98

#### DUPONT SPREADER-STICKER

1 oz. 59¢; Pt., \$1.65; Gal., \$8.35

#### TOMATO DUST

As Spray, 2 lb. makes 10 gallon. 8 oz.  
Sq. Duster, \$1.10; 2 lb., \$1.49

#### DU PONT VEGETABLE GARDEN DUST

8 oz. Squeeze Duster, \$1.19.

8 oz. Dust Gun, 98c; 1 lb. Canister,  
\$1.35; 3 lb. Bag, \$2.75

#### TREE WOUND DRESSING

12 oz. Aerosol, \$1.89

#### DU PONT 72% CHLORDANE

8 oz., \$2.25; 16 oz., \$3.95

#### SEED DISINFECTANTS

**ARASAN 75**—For dry application to prevent seed decay and damping off of corn, peanuts, sorghum, vegetables, grasses and legumes. ½ to 1 teaspoonful treats 1 lb. of seed.  
1 oz., 60¢; 8 oz., \$1.50

**SEMESAN**—For vegetable and flower seeds. One ounce to 15 to 30 lbs. seed.  
4 oz., \$2.50; 12 oz., \$5.95

**SEMESAN BEL**—Dip disinfectant to kill scab and rhizoctonia on seed potatoes. One pound treats 60 to 80 bushels.  
3 oz., \$1.45

**CERESAN (New Improved)**—For wheat & gladiolus bulbs. ½ oz. for 1 bu. seed.  
4 oz., 50¢; lb., \$1.95; 4 lbs., \$4.85

**CERESAN M.** For small grains and peas.

14 oz., \$1.60; 3 lb., \$4.45

#### TERSAN 75 (75% Thiram-DuPont)

Protects lawns from usual ravages of spring turf diseases.

5½ oz., \$1.00; 3 lbs., \$5.50.

8 oz., \$1.95

#### DDT HOUSEHOLD SPRAY 5%

Qt., 75c; gal., \$2.00.



#### DX SPRAY

(1 oz. makes 6 gallons)

A rotenone-pyrethrum-D.D.T. spray in an active vegetable oil base for control of sucking and chewing insects on fruit trees, shade trees, vegetables and flowers.

10 oz., 40¢; 4 oz., \$1.00; ½ pt., \$1.75;

Qt., \$5.50; Gal. \$14.50

#### D.X AERO-SPRAY

An Insect Spray for flowering and foliage house plants.

10 oz. Spray Bomb \$1.49



## MITES and RED SPIDER

Quick, positive contact control for red spider and mites damaging evergreens, flowers and fruit trees. 2 oz. bottle makes twelve gallons spray.

ORDER NOW!

ONLY  
69¢



#### DINITRO (Ortozol Powder)

Use in the dormant period to control aphid eggs, bud moth and other pests. Mixes easily in cold water. Use 1 to 2 lbs. in 100 gallons.  
Lb., \$1.00.

#### DITHANE Z-78

3 lb. pkg., \$3.00.

#### DIELDRIN

50% Wettable—8 oz., \$1.75; 3 lbs., \$6.45; 1½% liquid—Gal. \$7.70.

#### DUO-COPPER DUST

Contains 7% copper for use as a fungicidal dust. 5 lb. bag, \$1.49.

#### DOG REPELLENTS

**CHAPERONE**, Powdered — Large size \$1.00.

**KITTY CHAPERONE**. For use indoors. 3 oz. size \$1.00.

**CHAPERONE**. 3 oz., \$1.00; 8 oz., \$1.49; qt., \$3.98.

**DOG CHECK**. 3 oz., 60c; 8 oz., \$1.00.

**DOG SKAT**. 4" tube. Hang on trees or shrubs. The odor does the work. Dogs and cats hate it.  
59c ea.; 6 for \$3.00.

**DOGZOFF**. 3 oz., 90c.

**FUMEOGEN**. 8 oz., 59c.

**REPELLENT ROPE**. Emits odor repugnant to wide range of animals. Non-poisonous, non-injurious to hands and harmless to pets. Protect vegetable gardens by placing rope on ground around entire garden. Circle flower beds and shrubs. Protect bulbs by burying the rope in 3 inch trench around the bed.  
100 ft., \$1.50.

(See also *Pestex*)

#### EVERGREEN GARDEN SPRAY

Non-poisonous, but deadly to many common varieties of both chewing and sucking insects (1 oz. makes 6 gallons).

1 oz., 35c; 6 oz., \$1.15; pt., \$2.45; qt., \$4.10; gal. \$12.60.

#### FISH OIL SOAP

Keeps trees, plants and vines clean and healthy, effectively controlling sucking insects and many forms of scale.

1 lb., 50¢; 5 lbs., \$1.75

#### FLEA KILLER

One of the most effective flea killers on the market. Contains the new insecticide, Malathion, recently approved by U.S.D.A. for use on dogs and cats. Highly effective and in easy-to-use squeeze dusters  
8 oz. Squeeze Duster, 98¢

#### FORMACIDE FORMALDEHYDE DUST

Seed and soil treating compound which controls seed borne diseases and when applied to the soil controls "damping off" and other root rots of vegetable and flower seedlings. Usually applied 1 lb. per 10 sq. ft.  
1 lb., 95c; 4 lb. can, \$2.50.



### FRUIT SPRAY OR DUST

Achieve commercial results with your home orchard by using one of the safest, most effective fruit tree sprays on the market. A new insecticide, fungicide mixture containing Malathion, Captan and Methoxy-chlor.

8 oz., 85¢; 2 lb., \$1.95

### FRUIT TREE SPRAY OR DUST (Pratt's)

1 lb. .... \$1.00  
3 lb. .... 2.00

### GARDEN DUST OR SPRAY



A dependable, safe multi-purpose garden dust or spray to control a wide variety of insects and diseases. Contains 4% Malathion, 5% Methoxychlor and 3.9% Zineb. One of the few home garden dusts or sprays containing Zineb.

1 lb., \$1.10; 5 lb. \$3.50

### HY-TOX INSECT DUST



For the gardeners who prefer to dust their vegetables. Containing 4% Malathion, Hy-Tox Insect Dust controls a wide variety of pests including a-

phids, mites, cabbage worms, and Mexican bean beetle.

1 lb., 69¢; 3 lb., \$1.29

### HY-TOX INSECT SPRAY



An unusually versatile insecticide spray for use on Gardens, Flowers, Vegetables, Trees and Shrubs. Ideal for the gardener who wants high grade protection with one general purpose, insect spray. A mixture of 25% Malathion and 25% Methoxychlor.

4 oz., \$1.00; 8 oz., \$1.85; pint, \$3.00  
12 oz. aerosol, \$1.39.

### HY-TOX SULPHUR

A superfine sulphur that is right for dusting or spraying. For the control of Mildew, Black Spot, Rust, and other fungus growth encountered in cultivation of Flowers, Garden Crops, Fruit trees, Shrubs and Evergreens. Rose growers get prize results by using sulphur in this easy to apply dust form.

1½ lb., 60¢

### ISOTOX GARDEN SPRAY

4 oz., \$1.10; 8 oz., \$1.89; pt., \$2.89;  
Qt., \$5.25.

### LINDANE INDUSTRIAL SPRAY

5%—Pt., 60c; qt., 85c; gal., \$2.50.

### LINDANE 25% WETTABLE POWDER

1 lb. makes 50 to 100 gal., \$4.00.

### LAWNTROL (Dieldrin Granules)

Kills all lawn insects with single application. Long residual action without damage to grass. Compatible with other chemicals, fertilizer, and fungicides, etc. for spreader application. 1 lb. covers 350 sq. ft. 1 lb., 69c; 2 lbs., \$1.25; 5 lbs., \$2.49.

### 25% MALATHION WETTABLE POWDER

A wettable concentrate for use where powdered Malathion is desired. Kills mites, aphids, Mexican bean beetle, leaf-hopper, cabbage worm, thrips, Japanese beetle and many other garden pests.

8 oz., 80¢; 3 lb. \$3.15

### MARVEL SPRAY

4 oz., \$1.00; ½ pt., \$1.75.

### MOLE-NOTS

Protects lawns, gardens, flower beds, golf courses, etc. No traps. Pkg. of 8, 35c; pkg. of 50, \$1.00.

### MOLOGEN

Destroys moles quickly, easy to use. No odor or gases. Harmless to soil or grass.

½ lb., 59c; 1½ lbs., \$1.25.

### 10% NEMAGON GRANULES

A new method to economically control nematodes. Even home growers should treat garden and plant beds. Nematodes are barely visible worms that destroy 1/10 of all vegetables grown today by feeding on plant roots, which results in stunted growth and low quality yields.

5 lb. bag, \$2.59

### "NICO-FUME" POWDER PRESSURE-FUMIGATOR

Use at approximate rate of 1 lb. per 20,000 to 30,000 cu. ft. of air space.

½ lb., 55c ea.; 12—\$5.65.

1 lb., 95c ea.; 12—\$10.70.

### PARA-DICHLOROBENZENE

Apply September 1st to October 10th, according to latitude. Some growers prefer to make two applications, the first being in the month of June. One pound is sufficient for 10 to 30 trees, according to size. It is not advisable to treat trees under 4 years of age, and apple trees should never be treated.

Lb., 59c; 5 lbs., \$2.59; 25 lbs., \$7.50.



### PARIS GREEN (1 lb. makes 30 gal.)

Contains 55% arsenious oxide, gives quick control where extreme measures are necessary.

¼ lb., 45c; 1 lb., \$1.10.

### PEACH BORER CONTROLS PARA-SCALECID

(1 gallon to 7 gallons water)

(Use 1 pint solution to each three-year-old tree.)

Is effective and safe in young or old trees.

½ pt., 85c; qt., \$1.69; gal., \$3.98.

### PESTEX (Pest Repellent)

Does not kill but repels dogs, rabbits, squirrels, moles, rats, mice, starlings, pigeons, crows, etc. 2 lbs., \$1.00.

### PHYGON (Wettable)

Fungicide for the control of all Leaf Blights and Fruit Rot of Tomatoes, Black Spots of Roses, Apple Scab and many other plant diseases. 4½ oz., \$1.00.

### POMO-GREEN

(For Roses and Ornamental Plants)

Kills insects, diseases, and mites. Contains Aramite, Lindane, Methoxychlor, Ferbam, and Sulfur. It is leaf green in color to blend with foliage. 8 oz., \$1.35. 1 lb., \$1.45; 3 lb. canis., \$3.20.

### PRUNING PAINT

Antiseptic for sealing and waterproofing tree wounds. Prevents infection of pruned or damaged areas. Also good for grafting.

½ pt., 90c; pt., \$1.65; qt., \$2.45; gal., \$8.00.

### PURITURF 177

A wettable organic cadmium fungicide for use in control of dollar spot, copper spot, pink patch and other turf diseases. 1½ oz. to 10 gals. of water treats 1,000 sq. ft.

1 lb. canister, \$4.95.

### RED ARROW

1 oz. makes 8 gal.

1 oz., 35c; 2 oz., 65c; 4 oz., \$1.00; 1 pt., \$2.85; gal., \$18.20.

### ROSE DUST or SPRAY



A new up to date formula based on research work at the United States Department of Agriculture, Beltsville, Maryland. Contains Aramite, D.D.T., Lindane, Ferbam and Sulphur. A complete formula for control of both insects and diseases.

8 oz. squeeze, \$1.19; 1 lb., \$1.10; 3 lb. bag, \$2.49.



# Dusting and Spraying Materials (Continued)

## ROSE & FLORAL DUST

Contains Lindane, DDT, Zineb, Karathane, and Aramite.  
8 oz. duster, \$1.39; 1 lb., \$1.49;  
3 lb., \$3.75.

## ROTENONE DUST ¾%

Strictly non-poisonous insecticide for the control of insects attacking vegetable crops. Should be used at rate of 15 to 25 lbs. per acre or as a spray 1 lb. to 10 gallons.  
1 lb., 42c; 4 lb., \$1.29; 50 lb., \$5.50



## SCALECIDE

(1 gallon to 15 gallons water.)  
Qt., \$1.39; gal., 3.25,  
5 gals., \$13.50; 15 gals.,  
\$26.08; 30 gals., \$40.94;  
55 gals., \$59.96.

## SNAROL

Sure death to snails and slugs. Harmless to vegetation, not affected by rain or irrigation.  
1 lb., 50c; 2½ lbs., \$1.00; 6 lbs., \$2.00; 50 lbs., \$13.00.



## SPERGON

3 to 12 oz. treats 100 lbs. seed.  
1 oz., 50c; 5 oz., \$1.75; 1 lb., \$2.50.

**SPERGON GLADIOLUS DUST**  
2 oz., 50c; 1 lb., \$1.95; 10 lb., \$11.50.

## STRAWBERRY DUST

Repels red spiders, stops clippers  
10 lbs., \$1.85; 25 lbs., \$3.00; 100 lbs., \$9.50.

## ACME WEEDKILLER

Used around factory grounds, driveways, tennis courts, etc. Kills all vegetation and makes the soil barren for a year—do not use on lawns or near valuable plants.  
1 part to 50 parts of water  
(32.5% Arsenic Trioxide)  
Qt., 95c; gal., \$2.75; 5 gal., \$10.95.

## CRAIG HERBICIDE 1

At rate of 4 oz. to 3,000 sq. ft. or 2 to 3 lbs. per acre (mineral soils), 5 to 6 lbs. per acre (organic soils). Harmless to foliage.  
4 oz., \$1.50; 1 lb., \$4.49.

## DU PONT AMMATE

Poison ivy weed killer. 1 lb. to 1 gal. water treats 100 sq. ft.  
2 lbs., \$1.25; 6 lbs., \$3.25.

## DU PONT LAWN WEED KILLER

8 oz. \$1.00; 32 oz., \$2.95;  
12 oz. Aerosol, \$1.79

## SULFOCID

(1 qt. makes 50 gal.)

A highly concentrated non-poisonous liquid sulphur fungicide—entirely distinct from lime sulphur.  
Pt., \$1.25; Qt., \$1.75; Gal., \$4.00; 5 gals., \$13.00; 15 gals., \$29.40.

## SULPHUR

Commercial Flour of Sulphur.  
25 lbs., \$1.25; 100 lbs., \$4.50  
Superfine Dusting Sulphur.  
10 lbs., 75c; 25 lbs., \$1.50.

## SULPHUR (DRITOMIC)

5-lb. bags, 85c; 50 lb., \$6.00.

## TOMATO DUST



Tomatoes are special and here is a product formulated to avoid injury to plants and produce luscious red, ripe tomatoes. With a new formula controls early and late blights as well as insects and can be used up to a few days of harvest.

1 lb., 75¢; 3 lb., \$1.39

## TREE BANDING COMPOUND (Acme Stop)



Band trees early in spring and fall before climbing insects get above barrier.  
1 lb. Canister, \$1.15.

## TREE WOUND DRESSING

Standard blackdressing used by State and City Forestry Departments, Tree Surgeons and Nurserymen. Pt., 95¢; Qt., \$1.85; Gal., \$5.25; 5 gal., \$17.50.

## Weed Killers

### HAMMOND WEED KILLER

1 qt., 90c; 1 gal., \$2.50

### KARMEX—W

30 lbs./acre Kills all vegetation.  
2 lbs./acre Kills weeds in Asparagus.  
2 lbs., \$9.10 10 lbs., \$40.50

### P. C. CRAB GRASS AND CHICK WEED KILLERS

Du Pont (52½% Active Ingredient).  
7½ oz., \$1.00; 30 oz., \$2.95.

### SCOTT'S WEED AND FEED

Kills broadleaved weeds via the action of 2-4-D (in dry form) and fertilizes at the same time.  
1000 sq. ft. box .....\$1.95  
2500 sq. ft. bag .....\$3.45  
5000 sq. ft. bag .....\$5.95

### SCOTT'S SCUTL

Destroys crabgrass, controls fungus diseases and seedling sprouts of most weeds without browning the desirable grasses.  
2500 sq. ft. bag .....\$3.45  
5000 sq. ft. bag .....\$5.95

## TRI-GEN

### FIRST IN ROSE SPRAYS

A "Three Way" plant treatment. Insecticide protection against chewing and sucking insects; fungicide protection against powdery mildew and black spot; plus plant stimulants. Especially recommended for Roses, Asters, Snapdragons, Chrysanthemums, and many other plants including vegetable garden produce.

E Economy Kit (makes 8 qts.) \$1.79  
A Small Kit (makes 16 qts.) 2.49  
B Medium Kit (makes 64 qts.) 6.25  
C Large Kit (makes 32 gal.) 9.95

### TRI-GEN DUST

General purpose three-way insecticide-fungicide dust.

1 lb., \$1.25; 5 lbs., \$4.98  
**VOLCK OIL SPRAY**  
4 oz., 39¢; Pt., 79¢; Qt., \$1.49;  
Gal., \$3.19

### V-C NEMACIDE

New amazing chemical for controlling Nematodes without lifting plants or turf. V-C 13 kills Nematodes around the roots of the growing plants, permitting trees, shrubs and grass to live through the treatment, and to recover health and growth after Nematodes have been destroyed. 8 oz. treats approx. 100 sq. ft.  
8 oz., \$2.50; 2½ lbs., \$8.50; 10 lbs., \$28.50.



### PRE-EMERGENCE CRAB GRASS KILLER

## GET RID OF UGLY CRAB GRASS

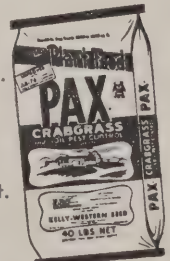
Apply

### The ONLY TRUE

### Crab Grass Seed Killer

20 lb. Bag  
Treats 800 sq. ft.  
only \$5.50

40 lb. Bag  
Treats 1600 sq. ft.  
only \$9.98





# Weedone Weed Killers

# Hormones



## WEEDONE (New Improved)

Contains powerful 2, 4, 5-T and 2, 4-D, the two most effective chemicals for killing lawn weeds, poison ivy, poison oak, honeysuckle and over 90 other weeds and woody plants without killing the grass. Non poisonous to animals or humans. Prevents re-sprouting of tree stumps.

8 oz., \$1.00; 1 qt., \$2.75; 1 gal., \$6.75; 5 gal., \$24.75.

Weedone Sprayer ..... 59c ea.

## DRY FORM (for Spreader)

5 lbs. (treats 3,000 sq. ft.) — \$2.25  
18 lbs. (treats 11,000 sq. ft.) — 6.95

## WEEDUST 2, 4-D

12 oz. Shaker top ..... \$1.00



## SODAR CRAB GRASS KILLER (Wettable Powder for Sprayers)

Most effective new chemical for control of crab grass, chickweed, witch grass. Will not injure lawns. Use when temperature is below 80°.

4 oz., \$1.25; 1 lb., \$3.50;  
2 lbs., \$6.59; 6 lbs., \$18.00

## DRY FORMULATION (for Spreader)

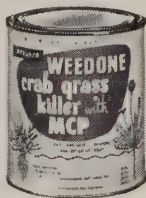
5 lb. bag (1500 sq. ft.) ..... \$2.25  
13 lb. bag (4000 sq. ft.) ..... \$5.25

## LIQUID FORMULATION (for Sprayers)

Pt., \$1.95; Qt., \$3.50; Gal., \$12.95

## WEEDONE CRAB GRASS KILLER WITH MCP

Kills crab grass, chickweed and broad-leaf weeds. Recommended as a complete renovation. 6½ ozs. (treats 1000 sq. ft. seedling stage) \$1.25; 26 oz. (treats 4000 sq. ft. seedling stage) \$3.75; 6 lbs. (treats 16,000 sq. ft. seedling stage) \$9.70.



## GRASS KILLER (TCA)

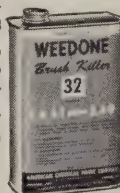
(90% Sodium Tri Chloro Acetate) Kills noxious grasses such as Johnson, Quack, Bermuda, and numerous annual and perennial weed grass pests of LAWNS, TENNIS COURTS, PATIOS, and DRIVEWAYS.  
1½ lbs., \$1.95; 10 lbs., \$7.85.

## WEEDONE BRUSH KILLER

(1 qt. makes 10 to 20 gal.)

Kills a greater range of weeds and woody plants than either 2-4-D or 2, 4, 5-T spray used alone. No vapor injury to nearby susceptible crops. Prevents re-sprouting of the stumps.

8 oz., \$1.49; Qt., \$3.75;  
Gal., \$7.25; 5 Gal. \$34.50



## CHICKWEED KILLER

Use any time chickweed is growing. Kills all varieties of chickweed — will not kill grass.

8 oz., \$1.49; Qt., \$3.75;  
Gal., \$9.75

Weedone (46% Potassium-Cynate) 6½ oz., \$1.00; 26 oz., \$3.00; 6½ lbs., \$8.85.

## CLOVER KILLER

Outstanding product for eliminating clover and oxalis from lawns. Contains 2-4, 5-T. Used by experts on golf courses and lawns.

8 oz., \$1.25



## ACP POISON IVY KILLER

8 oz., \$1.25; 24 oz., \$3.35

## KILLER KANE

Killer Kane sprays deadly weed killer right on the weed. Kills dandelion, plantain and other broad-leaved lawn pests way down to the root tips. No stooping, no digging. You kill weeds as fast as you can walk. Just place point on weed, press, release, and a measured dose of spray drenches weed. Valve closes automatically as Killer Kane is lifted. Spray does not drift. Can be used close to flowers and shrubs without danger. It's the easiest way to keep lawns free of weeds. Price \$1.79.

## AIR WRAP KIT

(For air layering and cutting propagation). Provides perfect conditions making a branch of a tree, vine or shrub produce an independent root system while still attached to the parent plant. With Airwrap, anyone can propagate plants expertly. \$1.95.

## FRUITONE

REG. U. S. PAT. OFF.

When sprayed on blossoms of tomatoes or beans it produces better set and larger crop.

2½ oz., 25¢; 2-oz. \$1; 12-oz. \$5

## TRANSPANTONE

Reg. U. S. Pat. Off.

Very beneficial to transplanted seedlings, shaded lawns and backward garden plants. 1 ounce makes 10 gal. transplanting solution or 900 gal. watering solution.

½ oz. pkt., 25¢; 3 oz., \$1.00; 1b, \$4

## ROOTONE

Reg. U. S. Pat. Off.



For rooting cuttings, also assures better germination of seeds, produces better plants with longer roots, greater top growth and vigor.

¼ oz. will treat 2½ lbs. seed or 400 cuttings, 25¢.

2-oz. size will treat 8 bu. seed or 3,000 cuttings, \$1.00.

1 lb. will treat 30 bu. seed or 30,000 cuttings, \$5.00.

## ROOTONE No. 10

Double strength for woody cuttings 2 oz. jar, \$2.00; 1 lb., \$10.00

## ACP GIBBERELIC

—Contains Gibrel®

Interesting chemical growth stimulant. Makes plants grow bigger, mature and bloom earlier.

6 oz. aerosol ..... \$1.59

## GIBBERELIC ACID (Miller)

4 oz. Bottle, \$3.15

## BLOSSOM SET

Stops blossom drop. Makes blossoms set fruit. Tomatoes ripen weeks earlier.

4 oz., 75¢; Pt., \$1.75;

12 oz. bomb, \$1.79

## BERRY SET

Hormone spray. Makes strawberries, Blackberries, Raspberries grow 50% - 100% bigger.  
oz., 50¢; 3 oz., \$1.00





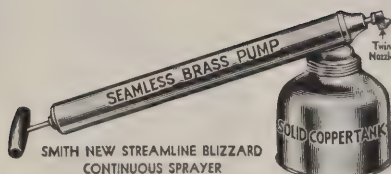


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# Sprayers

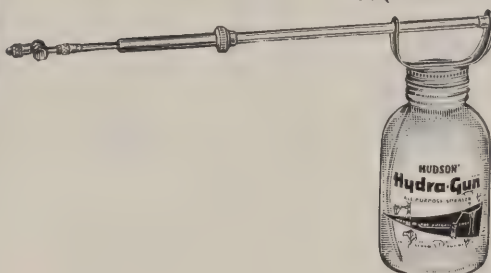


310B



SMITH NEW STREAMLINE BLIZZARD  
CONTINUOUS SPRAYER

14Q



HUDSON  
Hydra-Gun



711B

## HUDSON

9A—Favorite, 1 $\frac{3}{4}$ gal., galv.	\$12.50
291B—Booster, 3 $\frac{1}{2}$ gal., galv.	11.03
220B—Bugweiser, 3 gal., galv.	10.47
293B—Leader, 3 $\frac{1}{2}$ gal., galv.	14.07
335A—Climax, 3 $\frac{1}{2}$ gal., galv.,	18.33
115—Clipper	9.44
310B—Perfection, 4 gal., galv.	20.79

## FLAME SPRAYER

711B—3 $\frac{1}{2}$ gal., galv.,	\$34.69
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## BROWN OPEN-HED

68D—3 gal., galv.	\$20.15
64D—4 gal., galv.	23.50

## KNAPSACK

Champion No. 1—All brass 4 $\frac{1}{4}$ gal.	\$33.95
347E—Du-More, (Knapsack) 4 gal., galv.	\$51.55

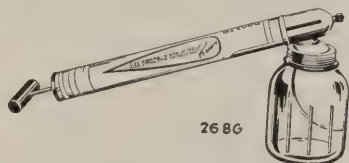


## SINGLE ACTION

208—Cloud	\$ .60
333—Fog	.90
440—Handy	.70
444—Misty	1.00
222—Vapor, pint, tin	.60
3G—Smith, quart, galv.,	1.38
205—Bantam, 5 oz., glass	.43

## BUCKET PUMPS

219B—Trombone Jr.	\$ 7.95
223B—Trombone	12.95



268G

## CONTINUOUS SPRAYERS

428—Critic, 24 oz., Glass	\$2.82
447—Eclipse, 1 qt., Stainless Steel	7.95
431A—Comet, quart, tin	1.68
433—Mercury, quart, tin	2.37
436—Cardinal, 3 qt., galv.	3.57
26BG—Brown, 1 qt., tin, glass jar	3.25
14Q—Blizzard, 1 qt., copper	6.69
8P—Bronx, 1 pt. glass bottle	2.63

## No. 419A—Hydra-Gun

\$6.95



No. 1010  
Suburban—10 gal.  
\$161.76



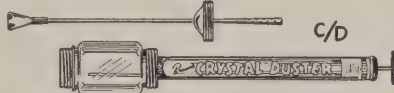
HAYES 1 $\frac{1}{2}$   
\$3.25



HAYES 6  
\$9.95

3505A—Hudson With Pressure Tank. 18 gallon galv. tank with a large removable barrel pump. Discharge equipment consists of 10 ft. spray hose, 3 ft. extension rod and angle spray nozzle \$95.38  
No. 3504A—Cushion Tire 86.40  
No. 3503A—Steel Wheels 78.84  
3603A—Sunshine, 12 $\frac{1}{2}$  gal. cap 46.96

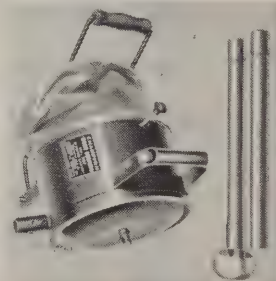
## Dusters



C/D

## BROWNS CRYSTAL—\$3.50

No. 103—Champion Bellows Duster, capacity 8 lbs. Easily filled adjustable nozzle, very efficient \$9.85  
673—Cadet \$ .84  
674A—Adjutant 1.58  
612A—Patrol 2.30  
766C—Admiral 3.05  
No. 806B—Capacity 12 to 25 lbs. \$50.09  
1A—Stauffer Knapsack. Hopper capacity 20 lbs. 39.91



No. 103



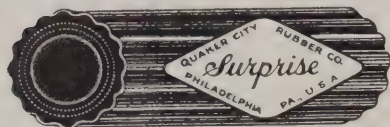


### SOIL-SOAKER Made of Canvas

No. 1, 18 ft. — \$2.35  
No. 2, 30 ft. — 3.49  
No. 3, 50 ft. — 4.98

## SOIL-SOAKER

**PLASTIC SPRINKLER HOSE**  
Supplex—25 ft., \$3.98; 50 ft., \$5.98



### RUBBER HOSE

**FLOWLINER.** 9/16 in. 1 braid, 25 ft. lengths, \$4.50; 50 ft. lengths, \$7.60. (Couplings included.)

**MAINLINER.** 3/4 in. 2 braid, 25 ft. \$7.60; 50 ft., \$13.90 (Couplings included.)

**MAINLINER.** 3/4 in. 2 braid, black, smooth, 50 ft. lengths, \$17.00. (Couplings included.)

**SPRAY HOSE,** 3/8 inch. 35c per ft.

### SUPPLEX GARDEN HOSE Visible Tire-Cord Reinforcement

25 ft. \$4.39  
1/2" 50 ft. 7.29  
75 ft. 9.90

**Tire-Cord Reinforced 4-ply 10 yr. guarantee.** Packed on Storage Reel free of cost.

1/2" 50 ft. \$9.98  
**Opaque, Non-Reinforced 2-ply 5 yr guarantee.**

7/16" 25 ft. \$2.24  
50 ft. 3.59

### HOSE NOZZLES

161 — \$1.35 155 — \$1.80  
139—Shut off nozzle — \$3.00  
950—Shut off valve — \$3.50



**OK-Trim Electric Hedge Trimmer**  
\$17.95

**OK Electric Grass Trimmer and Edger** — \$36.95



**GRAFTING WAX**  
Trowbridge Brand. 1/4 lb., 45c; 1/2 lb., 60c; 1 lb., 90c.  
**FRUIT PICKER**—Without pole, 85c.

**MOLE TRAPS**  
No. 200 Redick 24" \$3.25

#320T



PORTER

45

2500

### LOPPING SHEARS

Wiss #224T 24" Handle — \$6.50  
Wiss #320T 20" Handle — 4.95  
Wiss #16P 10 1/2" Handle — 3.95  
530—30 in. Steel hdl. — 7.50  
175—20 in. Lightweight — 2.50  
45—22" handle — 3.95

### ASPARAGUS KNIFE

2500J—Short handle — \$ .75  
KC4—Chrome — .98

### ASPARAGUS BUNCHER

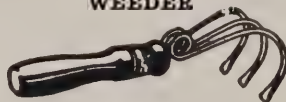
No. 2 — \$7.00

### SKILSAW ELECTRIC TRIMMER



No. 513—Universal Motor Cutter  
Blade 14 1/2 in. long — Price \$44.50

### WEEDER



A—3 Tines, 9 1/4 in. length — \$ .20  
B—3 Tines, 18 in. length — .35  
BB—3 Tines, 33 in. length — .50  
C—4 Tines, 10 in. length — .35  
D—4 Tines, 10 1/4 in. length with square blade — .50  
E—4 Tines, 10 1/4 in. length with "V" blade — .50  
G—4 Tines, 57 in. length — 1.75  
H—4 Tines, 56 in. length with square blade — 1.85  
K—4 Tines, 56 in. length with "V" blade — 1.85

### GRASS SHEARS



#400G Wallace — \$3.15  
Miracle #1, — \$2.50; \$2.75  
Miracle, long handle — \$8.50  
#57 Miracle — \$2.85

### PRUNING SAW

118—18 inch — \$2.50  
162—20 inch — 4.85  
129—12 inch, Simonds curved — 1.25

### PRUNING SHEARS



Wiss No. FH4 cuts and holds

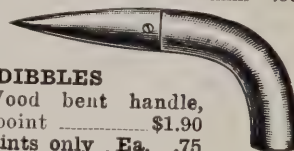
flowers — \$2.50  
118—Ladies Snap Cut — 2.59  
119—Snap Cut, 8 in. Anvil — 3.25  
Wiss #607 Chrome — \$3.95  
Wiss #88 Draw Cut — 2.95  
Wiss #908 Hy-Power — 3.25  
Wiss #1 K S Kitchen — 2.75  
#84-9W—Imported — \$4.50  
#82-8W—Imported — 3.00  
#81W—Rose Shear — 4.00

### HAND GARDEN FORKS

300—3 Tine — \$ .90  
703—3 Tine, Gardex — .55  
BNT—Fork & Trowel Set  
Stainless Steel — \$7.30

### GARDEN TROWELS

#2165 Stainless Steel with wooden handle — \$5.00  
#2166 Stainless Steel with Plastic handle — \$4.35  
#2120—6 in. blade — \$ .70  
53—One piece aluminum — \$ .80  
217J—6 in. Transplanting — .35  
215J—6 in. Steel blade — .55  
214E—Hand forged blade & shank — 2.20  
211—6 in. Forged one piece — .75  
TC1—Chrome Transplanting — .98  
TC2—Chrome Garden — .98



### DIBBLES

218J—Wood bent handle, steel point — \$1.90  
Steel Points only Ea. .75  
Hole in one — 1.00  
Don's Dandy Digger — 3.49  
Quicke Longhandle — 1.95

### TREE PRUNER

8 ft. — \$5.50  
10 ft. — 5.95  
12 ft. — 6.50

### PRUNING HOOKS

(Without Pole)

11—Telephone — \$4.85  
12—Heavy duty — 10.50  
166—Pruning shear and hook — 4.40  
167—Pruning, curved saw, shear and hook — 5.85  
168—Pruning straight saw, shear and hook — 4.95  
124P—24 in. — \$8.90  
2 FO—27 in. — 9.90

### HEDGE SHEARS



A54—9 inch, Lightning — \$4.75  
A14—6 inch, Ladies — 2.75  
K100—9 inch — 4.00



**ALS A14**  
**LEVEL HEAD CURVED**  
**TOOTH RAKES**

ALS—14 teeth ..... \$2.45

**ROUND BOW CURVED**  
**TOOTH RAKES**

A14—14 teeth ..... \$2.88

#15G—15 teeth ..... 3.30

**DANDELION RAKES**  
**Teeth**

DT ..... 26-3½ in. \$1.95

415 26-16¼ in. wide 2.40

B.D.R.—26 teeth ..... 3.12



**BROOM RAKES**  
**Teeth**

24 in. Maguire ..... \$2.00

Disston ..... 18-14 in. 3.50

Disston ..... 24-14 in. 4.10

F-49 Lawn Broom

22 teeth ..... \$2.00

31 Teeth—Bamboo

18" ..... 1.50

Bamboo ..... 33-18 in. .65

Bamboo ..... 26-24 in. 1.15

B.D.R.



**WOOD LAWN RAKE**

24 Teeth ..... \$2.15

Extra Teeth 55c per doz.

**MANURE AND**  
**ENSILAGE FORKS**

Oval Tines

EN8 ..... 8-16 in. \$8.92

EN10 ..... 10-16 in. 9.88

154½—5-13 in. .... 4.81

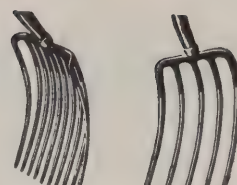
144½—13" ..... 4.51

**POTATO HOOKS**

Tines

RP5 ..... 5 tine ..... 4.00

P4BL ..... 4 tine ..... 364



**EN 10 R.H.A.**  
**HAY FORKS**

Tines

A36 ..... 3-12 in. \$3.75

RHA36 ..... 3-12 in. 2.45

**BROOMS**

Palmyrah ..... \$1.45

Stable Push ..... 2.00

**WEED CUTTERS**

No. 20 ..... \$2.50

GSGC-Geyer ..... \$1.98

GSG T-Grass

Trimmer ..... \$1.70

#71S Little Giant \$3.00

#61M Swing Clip ..... \$2.00



**A40S W3**  
**SPADING FORKS**

Flat Tines

A40S—4-11 in. .... \$3.43

HPL—4-11 in. .... 4.18

HPS—4-11 in. .... 4.18

LPL—4 tine ..... \$3.60

**VICTORY CULTIVATOR**

Tines

Turf King—chrome

16"—3 prong ..... 98¢

#5G ..... 5 \$3.49

Hazelwood Cultivator

#210 ..... 90¢

**RIGID CULTIVATOR**

Tines

270J—36" Hdl. ... 3 \$1.60

**SPEEDY CULTIVATORS**

Tines

#4 ..... 4 \$3.10

W3 ..... 3 2.77

R4 ..... 4 3.10

**GARDEN HOES**

FGS 7-in. blade ..... \$2.98

FGS—6½ in. blade ..... \$2.98

FG5—5 in. blade ..... 2.53

**NURSERY HOES**

N2½—2½ in. blade \$1.80

SL4—2½ in. blade ..... 1.80

**SCUFFLE HOE**

410-7 ..... 7 in. wide \$2.09

**ONION HOE**

#25—6½ x 1¾ blade

\$2.95

**RAPID HOE**

#RH-1-48 ..... \$2.95

**WARREN HOES**

G.W.R.S.—4¾ x 6¾

in. blade ..... \$3.04

VCH—3½ in. x 4 in.

blade ..... \$2.40

**TWO PRONG HOES**

S2PW—3½ in. blade

\$1.48

**SHRUBBERY HOE**

SL19—1½x6 in.

blade ..... \$ .85

Grubbing Hoe #437

Hazel with handle 6.25

**LAWN EDGER**

GLE-Blade—9x4¾ ..... \$3.00

Planet Jr. No. 2 ..... \$3.40

Planet Jr. No. 3 ..... \$4.45

400—Turf Edger ..... 2.90

GE10—Rotary Edger &

Trimmer ..... \$4.65

#166-I Little Giant

Lawn Edger ..... \$3.85

**DANDELION WEEDER**

#251—Straight

Blade ..... \$1.10



903B2 No. 20

**SHOVELS**

Rd. Pt. Long Hdl.

903B2—Ingersoll ..... \$4.86

717—Ladies ..... 4.98

Sq. Pt. Long Hdl.

S3½G—Floral Shovel

\$3.12

S248 Razor Back ..... 2.35

No. 6-956 ..... 3.30

Rd. Pt. "D" Hdl.

902B2—Ingersoll ..... \$5.04

GLE P4BL

**SPADES**

724—Ingersoll D

hdl. .... \$5.88

**MATTOCKS**

5 lb., 3½ in. cutter \$4.75

(Handles extra)

ME3 Garden ..... 3.49

Iron City H431 ..... 3.50

Mann's Rapid

Digger ..... 3.00

**AXES**

3 to 4 lbs. .... \$6.15

#1130 Bush Hook

3½ lbs. .... \$4.25

SL19 #25 RHSC

**SNOW PUSHER**

PA 20 (Aluminum) \$3.60

SP 18 ..... 2.65

SS 18 ..... 2.35

**SIDEWALK SCRAPERS**

RHSC—7x4½ in.

blade ..... \$1.35

SSC-Cont. Sidewalk \$1.80

**SNATH or SCYTHE**

HANDLES

Grass Snath, light ..... \$3.55

Bush Snath, heavy ..... 4.00

**SCYTHE STONES**

TDZ Alundum ..... .65

**GRASS HOOKS**

Little Giant #14

Long Handle ..... \$1.96

#17 Grass Razor ..... \$1.80

#3 By-Gum ..... \$1.20

#6 Nowatoco ..... \$1.50

**BRUSH HOOKS**

7N36P—Brush Killer

\$4.25

**SCYTHES**

32"-34" Grass ..... \$3.00

24"-28" Weed ..... 3.00

22" Bush ..... 4.00



## FLAT-PAK PLANT FORCER

### 'GRO-QUICK' ELECTRIC SEED BED HEATER

SEED UP IN 30 HOURS  
ROOT CUTTINGS IN 6 DAYS  
CUT GERMINATION TIME BY 2/3  
TRANSPLANT 2 WEEKS SOONER

Above user reports show what Gro-Quick soil cable will do. 6 cable sizes for 1 flat to large beds. New catalog, plans free. For hot-beds, cold frames, greenhouse benches, flats, cabinets. Uses house current.



J40A 40' cable & thermo. for 1 sash \$6.75  
S80A for double sash bed (36 sq. ft.) \$9.00  
BT—Soil Thermostat \$15.00  
AT—AIR THERMOSTAT \$4.50

AUTOMATIC MICRO SWITCH \$3.00

HEATING CABLE 80 ft. \$4.50; 40 ft. \$2.25.

HOT BED SASH \$6.00

HOT BED GLASS  
Let us quote.

PEERLESS GLAZING POINTS  
1 lb. Box (1000) 95c

### CAULKING COMPOUND

Gun type, Grey, \$3.50 gal.; White, \$3.65 gal.

### CAULKING GUN

Model D1—Barrel size 9/16 x 2 1/8 in. Capacity, one pint. 1/2 in. nozzle, ratchet rod, breech cap., \$4.50.

### PUTTY BULBS

For applying liquid Putty to sash or greenhouses. 12-oz. size, \$2.00.

### SPRAY BULBS

Centrospray, 12 oz. \$1.95

48" FENCE RODS  
\$3.25 doz.

### BAMBOO PLANT STAKES

2 ft. Light 20c per doz.; \$1.00 per 100  
3 ft. Light 25c per doz.; \$1.35 per 100  
4 ft. Light 30c per doz.; \$1.75 per 100

HYACINTH STAKES—Green  
18 in., 80c 100; \$4.75 per 1,000.

### PLANT PROPS

16", 80c doz.; 30", \$1.85 doz.; 42", \$2.20 doz.; 66", \$3.60 doz.; 72", \$5.40 doz.

### WOOD STAKES

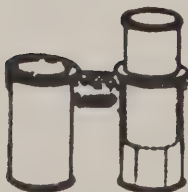
3 ft. Green 7c ea.; \$5.50 per 100  
5 ft. 33c ea.; 6 ft. 40c ea.

### TRAIN-ETTS

Weatherized trellis netting.  
No. 2—60 x 96 in., 95c.  
No. 3—60 x 180 in., \$1.35.

### CEMETERY VASE

Ground level, Aluminum finish, \$2.50.



## FLOWER POTS



A complete line of regular pots, azalea pots, bulb pans and saucers. Size given indicates top diameter.

Size	Standard	Azalea	Saucers
1 1/2"	Doz. 100	1000	1000
2"	Doz. 100	1000	1000
2 1/2"	Doz. 100	1000	1000
3"	Doz. 100	1000	1000
4"	Doz. 100	1000	1000
5"	Doz. 100	1000	1000
6"	Doz. 100	1000	1000
7"	Doz. 100	1000	1000
8"	Doz. 100	1000	1000
9"	Doz. 100	1000	1000
10"	Doz. 100	1000	1000
12"	Doz. 100	1000	1000

### RUBBER FLOWERPOT SAUCERS

Non-porous—safe to use on finished floors.

5 in., 35c; 7 in., 65c; 10 in., \$1.30; 12 in., \$2.65; 14 in., \$3.95

### POLYETHYLENE PLANTRAYS

3 in., 15c; 5 in., 25c; 7 in., 40c

### NEPONSET FLOWER POTS

Red Shipping

Dia.	per 100	per 1000
2 in.	\$9.00	\$9.00
2 1/4 in.	9.00	9.00
2 1/2 in.	1.20	9.10
3 in.	1.30	9.60
3 1/2 in.	12.80	12.80
4 in.	2.00	15.50
5 in.	19.00	19.00
6 in.	3.00	23.40

## FLOWER BOXES



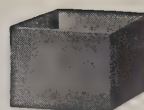
Green, 7 1/2" wide and 5 1/4 inches deep. 20 in., \$3.50; 26 in., \$4.00; 32 in., \$4.50; 38", \$5.00; 44" \$6.00.

### WINDOW BOX STANDS

32 in., \$6.50; 44 in., \$7.00

### WOODEN LABELS

Size	Painted
3 1/2 in.x5 1/2 in. Copper Wired	\$4.85
4 in.x5 1/2 in. wide, Pot, per 1000	3.60
5 in.x5 1/2 in. wide, Pot, per 1000	4.20
6 in.x5 1/2 in. wide, Pot, per 1000	4.60
8 in.x5 1/2 in. wide, gard, per 1000	6.80
10 in.x7 1/2 in. Wide, Garden, per 1000	10.15
12 in.x7 1/2 in. wide, Garden, per 1000	15.00
Prices per 100—3 1/2 to 6 in., 70¢;	
8 in., 90¢; 10 in., \$1.30; 12 in. 1.95	



## WATERPROOF PLANT BANDS (Fertilized)

Ready-to-use Plant Bands.

Let Us Quote Quantity Discount.

### VITA BAND 10

2x2x2 1/2 in.	100, \$ .80; 2000, \$10.50
2x2x3 in.	100, .90; 2000, 11.50
2 1/2x2 1/2x3 in.	100, .90; 2000, 12.50
3x3x3 in.	100, 1.00; 1000, 6.90
4x4x3 in.	100, 1.20; 500, 4.50
4x4x4 in.	100, 1.65; 500, 5.63

### PEAT POTS

2 1/4"	1000 \$ 7.00
3"	1000 13.00

### PERENNIAL POTS

Height	Top Dia.	Per 1000
5 1/2"	5"	\$47.50
6 1/2"	6"	58.50
9 1/2"	7"	69.00
5"	8"	65.00

### TOM THUMB FLAT AND PLANT BAND COMBINATION

With Vita Band 10 fertilized Plant Bands. 500 Sets (500 flats, 6,000 bands, 2x2x2 1/2.), \$53.35.

10 Flats with 120 Bands \$2.00

## HOTKAPS—An Individual Hothouse for Every Plant!

25 Hotkaps with Fibreboard Setter	\$ .95
100 Hotkaps with Fibreboard Setter	3.90
250 Hotkaps with Fibreboard Setter	7.15
\$19.95 per 1000; 10,000, \$19.75 per 1000	
Fibreboard Setter	.20
Steel Setter	1.95

### TWIST-EMS

B—8 in. box of 100, 29c.

D—16 in. box of 100, 57c

250 foot continuous roll \$1.00.

Utility Twist-ems, (1/4 in.) per 1000, 7 in. \$1.85; 8 in. \$2.00; 12 in. \$2.75; 16 in. \$3.45.

25,000 or more less 20%.

### METAL SEED FLAT

15x13x2 3/4 ins. deep. Sub-irrigated, brass drain screw. \$2.75.



### CEDAR PLANT TUBS (Richmond Style)

Made of Selected Virginia White Cedar, bound with electric welded hoops, painted green.

No.	Top Dia.	Bot. Dia.	Depth
5	10	7 1/2	9 \$3.20
7	12	9	11 4.00
9	14	11	13 5.75
11	16	12 1/2	15 7.50
13	18	14 1/2	17 9.50

## JIFFY POTS

Made of Imported Peat



Imported from Norway, the JIFFY-POT is a pure sterile peat container with plant nutrients added to the pot walls. Plant roots grow right through the pot walls, yield is greater, growth more luxurious. Used exclusively by professional growers the world over, home gardeners can now grow their indoor and outdoor plants with equally professional skill.

- ★ Plant Pot and All
- ★ No Transplanting Shock
- ★ Less Watering Required
- ★ Has Plant Food in Pot Walls
- ★ Provides Excellent Root Aeration
- ★ Positively No Odor
- ★ Saves Labor
- ★ Roots Grow Through Pot Walls

2 1/4 in. Diameter	Ctn. of 12	59¢
	Ctn. of 24	98¢
	Ctn. of 100	\$2.50
3 in. Diameter	Ctn. of 6	59¢
	Ctn. of 12	98¢
	Ctn. of 25	\$1.50
	Ctn. of 50	\$2.50

### GARDEN MARKING PEN SET

Consists of pocket pen and 24 wooden labels with copper wires.  
Set \$1.29

### WOODEN SEED FLATS

20 x 15 x 3—Cypress K.D. 75¢

### Tropi-Cover

To Beautify Your Flower Pots



Made of Bamboo to hide unsightly clay pots; keeps the plants healthy, snaps on in seconds. Natural color.

To fit 4 inch pot 50¢; 6 inch 70¢; 8 inch 90¢; 10 inch \$1.10.

Tray as shown not included in price.

## GARDEN TWINE



Asparagus Tape, 1000 yd. tube \$3.35

Binder Twine, 5 lb. \$1.35, Bale \$9.50

Cotton Cord, 3, 4, 6 and 8 ply lb. 95¢ 10 lbs. \$7.50

Jute Cord, 2 ply, 65c per lb.; 10 lb. \$5.25; 50 lb. coils 50c per lb.

Raffia, Natural color, first quality, 95c lb.

### SPRINKLER CANS

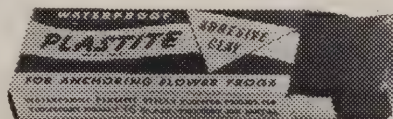
Improved design, easy to handle, easy to carry. Sturdily constructed; made of heavy steel hot-dipped in molten zinc to insure long life. Leak-proof. Capacities listed are actual, no size overated.



6 qt. ....	\$2.95	10 qt. ....	\$3.65
8 qt. ....	3.25	12 qt. ....	3.95

### KNEE PADS

JUDSON. Top quality molded rubber with soft sponge rubber cushion, adjustable straps, nonslip, grips wet or slippery surfaces. For "Every down on the knee job." Pair, \$2.50.



Standard box 25¢; 5 lb. box \$2.00

### SPRABULE and CENTROSPRAY



Centrospray

12 oz. \$1.98



A popular type of glove—for MEN and WOMEN—specially designed for garden wear.

Size 6, 7, 8, 9, 10 \$1.60 pair

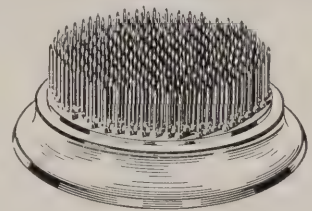
### GREEN THUMB



New Style Gloves for the House and Garden

Chamois-colored, chamois-soft, vinyl treated to keep out dirt. Long wearing, washable and they really have a green thumb. These gloves wear several times longer. Not affected by washing. Sizes: Large, Medium, and Small. 98¢ per pair; Men's size 98¢

### PIN FROG FLOWER HOLDERS



No. 454—4 1/2" dia	\$2.75
No. 453—3 1/2" dia.	2.00
No. 93—3 1/4" dia.	1.00
No. 92—2 3/4" dia.	.75
No. 91—2" dia.	.40
No. 97—Rectangular, 1 1/2" x 2 1/2"	.50

### LAWN & GRASS EDGING (Vinyl)

Dark green color blends with grass. Will not damage mowers. Easy to handle, need no tools for cutting. Will not rust or rot.

25 Ft. \$2.98 50 Ft. \$4.98

### ALUMINUM LAWN EDGING

40 ft. roll (4" wide) \$3.98  
40 ft. roll (8" wide) \$8.25

### WOODEN TRELLISES (Finished Clear Redwood)



#1025—Fan 8 Ft.	\$2.75
#1202 8 Ft. x 24"	3.30
#1201 8 Ft. x 18"	3.15

### All Aluminum

Rotproof, Rustproof, Termite Proof

### Trellises

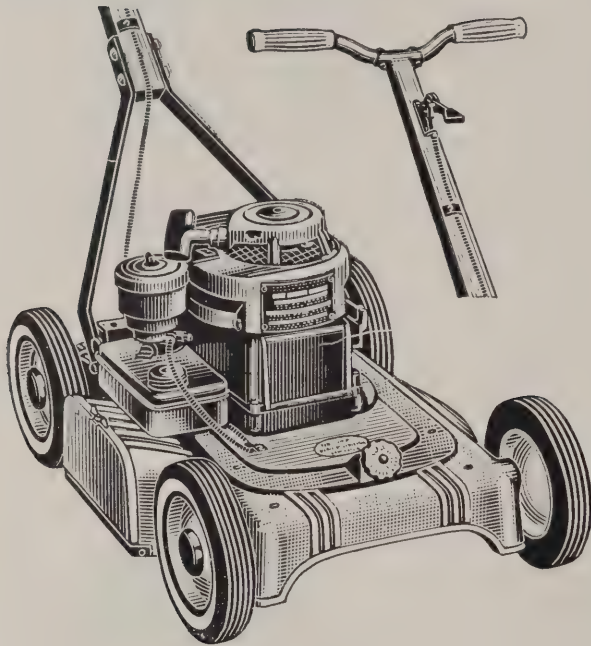
C6. 19" x 5'8"	\$5.95
C7. 19" x 7 Ft.	7.95

### Fans

Fs. 33" x 6 Ft.	\$5.95
F4. 40" x 6 Ft.	7.95
F5. 51" x 6 1/2 Ft.	9.95



# Lawn Maintenance Equipment



## POWER MOWERS

<b>A18 AEROLITE</b> —18 in. cut, Briggs & Stratton 4 cycle engine, Rope starter, 1 $\frac{3}{4}$ H.P. ....	\$ 76.95
<b>R-18 KING</b> —18 in. cut, Rotary, Briggs & Stratton engine, 1 $\frac{3}{4}$ H.P., Rope starter, Semi-pneumatic tires .....	94.95
<b>RA18R KING</b> —18 in. cut, Rotary, Briggs & Stratton 4 cycle engine, 2 $\frac{1}{4}$ H.P., Recoil Starter .....	99.95
<b>RA21R KING</b> —21 in. cut, same as RA18R except 2 $\frac{3}{4}$ H.P. ....	109.95
<b>SA18R SUPREME</b> —18 in. cut, Rotary, Briggs & Stratton 4 cycle engine, 1 $\frac{3}{4}$ H.P., Recoil Starter, 8 in. semi-pneumatic wheels .....	89.95
<b>RE18 KING ELECTRIC</b> —18 in. cut, Westinghouse $\frac{1}{8}$ H.P. motor .....	83.95

## HAND LAWNMOWERS

### QUIET TURFMASTER BALL BEARING

Streamline design; 5 blades, self sharpening; 10 in. dia. wheels, semi-pneumatic rubber tires, Chromium hub cap, rubber roller, steel handle. 14 in., \$24.30; 16 in., \$24.95.

### GRASS GROOMER BALL BEARING

Attractive streamlined mower, 5 blades, self-sharpening; 10 in. dia. wheels, semi-pneumatic rubber tires, rubber roller. 16 in., \$23.05.

### STERLING

Light weight; 5 $\frac{1}{2}$  in. dia. ball bearing revolving cutters. Four heat treated crucible steel knives; 8 in. dia. wheels. 14 in., \$16.25.

### TERRACE SPECIAL

Light weight, 8 in. dia. Solid rubber tires, ball bearing. 12 in., \$14.25; 14 in., \$14.75.

### SPECIAL

Ball bearing; 10 in. solid rubber tired wheels; five knives. 16 in., \$17.45.

### TURFLITE

Light weight, semi-pneumatic rubber tires, 5 knives, 10 in. dia. wheels, weighs only 33 lbs., 16 in., \$28.05; 18 in., \$28.70.

## ECLIPSE POWER LAWN MOWERS

Briggs & Stratton 4 cycle engines **ROCKET**—20 in. Reel Type, Recoil Starter, \$139.50.

## DIAMOND LAWN EDGER AND TRIMMER

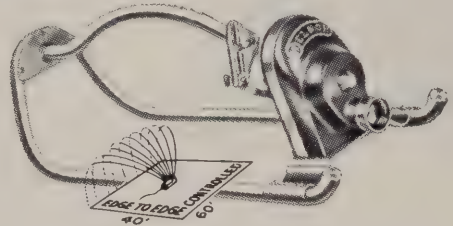
The diamond is one-half a small lawn mower with edging device. Will cut very close to wall or tree. Takes the place of Grass shears or grass hook; revolving cutter has 4 knives; 8 in. dia. wheel. \$17.85. Without edger \$15.75.

## GRASS CATCHERS

For hand lawn mowers 12 to 18 inches. \$2.85

For power mowers. 18 to 24 in. \$4.19

For power mowers 23 to 29 in. \$5.15



## METCO-WAVE SPRINKLERS

Model J—Waters 1700 sq. ft., adjustable ..... \$ 8.95

Model M—Waters 2000 sq. ft., aluminum tube frame, adjustable ..... 10.95

Model 2S—Waters 2700 sq. ft., aluminum tube frame; adjustable; built in filter; individual bronze jets; extra power—operates on extremely low pressure. .... 13.95

## SKINNER ROTO SPRINKLER

Waters 75 ft. circle, \$22.25

## NATURAIN IRRIGATOR

Primary Unit 5 ft. long ..... \$2.95

Extension Units 5 ft. long ..... 2.75 ea.

## SPRINKLERS

156—Tulip .....	\$1.95
5041—Ring .....	2.00
5011—Greenlawn .....	2.95
133—Gold Label .....	7.50
5043—Half Fountain .....	2.00

## TRAVELING SPRINKLER

#1000 "Traveler" covers 50' x 200' with 1 in. rainfall .....	\$44.95
# 950 Automatic shut off .....	3.50
#A5-2 Walking Sprinkler .....	26.95
#B3 Walking Sprinkler .....	34.95
Automatic shut off .....	4.90



## PARKER LAWN SWEEPERS

Parkerette 20 .....	\$35.00
Parkerette 28 .....	\$44.00

# your lawn

## WHEN TO PLANT

The very best time of the year to make a new lawn is early in the fall because of ample rainfall, continued cool weather and the winter killing of many weeds. The second best season is very early spring (March and April) because there is sufficient rainfall and cool weather to start the young grass quickly. Spring seeding however must compete with weed seeds in the soil and is sometimes damaged by hot dry weather before it is thoroughly established.

## STARTING A NEW LAWN

Preparation of the soil is the most important part of lawn making and should have the most careful attention because no amount of effort spent after a lawn is made can equal the results of thorough tillage before the seed is sown.

A successful lawn requires at least 5 to 6 inches of good quality top soil possessing the organic matter and plant foods necessary for sturdy growth of the grasses.

1. Rough grade above mentioned top-soil.
2. Spread evenly 3 lbs. per 100 sq. ft. of Hyper-Humus or Michigan Peat to improve water holding capacity and soil texture.
3. Apply high-magnesium limestone and organic lawn food containing "Urea-formaldehyde," as indicated by soil tests. If no test can be made, lawn food should be spread evenly at the rate of 4 lbs. per 100 sq. ft. (Regular commercial 5-10-5 is not recommended due to poor lasting quality.)
4. Spread Aldrin or Chlordane to insure protection against soil insect infestations. (Use 1 lb. of 6% Chlordane per each 300 sq. ft.)
5. Spade and rake in evenly with top soil making sure above ingredients are thoroughly mixed. The surface should then be smoothed by raking and light rolling.

## SOWING THE SEED

Sow at the rate of 1 lb. to 250 sq. ft. broadcasting half of the seed in one direction and the other half at right angles. If the soil is dry the surface may be raked very lightly covering seed not over  $\frac{1}{8}$  in. and being extremely careful to avoid "bunching" the seed. Rolling is desirable but only practical if the soil is sufficiently dry so that the seed does not stick to the roller. Many successful lawns are made without raking or rolling in the seed by depending upon the rain or watering to pack the soil firmly about the seeds. If watering is once begun however the soil must be kept damp continuously or the seed may sprout and die off before it has rooted.

## FERTILIZING

Very early feeding whether Spring or Fall forces growth of the grass during its most natural growing seasons, thereby helping it to crowd out crab-grass and more easily survive hot dry summer weather. A strong healthy turf also stands the rigors of winter so much better. Fertilizer materials are most accurately and easily applied by using a fertilizer spreader. Most materials should be applied when the grass is dry at the rate of 2 to 4 lbs. per 100 sq. ft. then watered in.

## TURF EXPERTS SOW Permanent Grass Seed Mixtures

Mixtures are designed to provide:

1. Better disease resistance.
2. Wider range of tolerance to extremes of temperature and drought.
3. Quick coverage for protection against erosion and weed infestation.
4. Assurance of good turf where a single species would fail, due to adverse environment or soil conditions.

Everything you need  
for a perfect lawn  
is available at

*Manns*

## HOW TO RENOVATE OLD LAWNS

1. Mow existing grass closely.
2. Apply correct weed killers if necessary.
3. As soon as weeds die, rake severely to loosen surface soil and remove dead material, as well as other debris.
4. Apply Chlordane or Aldrin at manufacturer's recommendations to kill lawn insects.
5. If soil is poor, spread 1 to 4 lbs. Hyper-Humus or Michigan Peat per sq. ft. to increase water-holding capacity and improve soil texture.
6. Apply high-magnesium limestone and organic type plant food as indicated by soil tests.
7. Thoroughly mix with existing top soil as deep as practicable, raking in both directions until there are no uneven accumulations of the above materials.
8. Follow procedure for "Sowing the Seed" as outlined in column one.

Grasses in lawns must grow under unnatural conditions which nature does not tolerate.

Uniformity and density are essential for a good turf. This close interweaving of plants necessitates extreme competition for moisture and nutrients. Moreover, large amounts of foliage are removed thus preventing carbohydrates from returning from the leaves to the roots to produce normal growth.

THEREFORE, ESTABLISHED LAWNS SHOULD BE FERTILIZED WITH A HIGH NITROGEN, LONG RESIDUAL FERTILIZER AT LEAST TWICE ANNUALLY.

## WEED CONTROL

One of the best weed controls is a good heavy turf, well fertilized very early, cut not shorter than 2 inches and kept seeded to grass so there will be practically no space for weeds to grow.

## SOIL pH

For most Maryland lawns the pH values (acidity or alkalinity) should be between 6.5 and 7.5, that is ranging between slightly acid to slightly alkaline, 7 being neutral. The grasses which thrive best in this climate succeed best in this pH range. If the soil is strongly acid (pH 4.5 to 5.0) an application of 10 lbs. of ground limestone per 100 sq. ft. will reduce the acidity to approximately pH 6. Lime should not be used on lawns unless an actual soil test indicates excessive acidity.

## THESE NEWER GRASSES ARE IN OUR BEST MIXTURES

**Merion Kentucky bluegrass.** Merion does well almost everywhere Kentucky bluegrass thrives. Higher tolerance to summer heat, lower cutting heights and less susceptibility to leafspot (fading out) diseases recommend it over other types. Since we know no satisfactory chemical control for leafspot, this resistance is an important factor. Density, texture and general quality are consistently as good and often better than that of other bluegrasses.

**Pennlawn fescue.** This synthetic hybrid, a recent Penn State University release, forms excellent turf with greater density, wider climatic adaptation, higher disease tolerance and recovery than earlier strains. Pennlawn improves with age.

**Colonial bent.** Non-creeping colonial bents belong in home lawns. Marketed under names of their production areas (Highland, Astoria, Oregon colonial, New Zealand brown top), they make satisfactory turf in temperate areas and usually comprise about 10 per cent of lawn mixtures.



## How to cure a Bald-Headed Terrace



Use Bemis Erosionet

## Sow Manns' DEEP ROOTING TERRACE MIXTURE and roll out the EROSIONET

Now you can grow grass on that stubborn slope. Unroll this mesh blanket and laugh at the rain. Your seeds will not be washed out, and you will get a sturdy stand of grass. 45 in. wide; 25c yd. 100 yds or more; 20c yd.

## WHEELBARROWS

No. 4-162 Wooden. Bed 23 in. long by 18½ and 23 in. wide, 11½ in. deep, wheel 16. in. x 2 in. semi-pneumatic tire. \$27.60.



No. M4½-22RB

No. M4½ 22RB. Size of tray 37 by 28 in., capacity 4½ cubic feet, with 2 ply 4:00 x 8 pneumatic rubber tired wheel, roller bearing.

\$34.90



Middy No. 275. Three cubic ft., 10 in. x 2.75 semi-pneumatic tire.

\$15.95

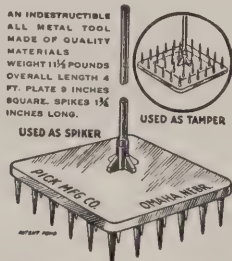
K8-24RB—6 cu. ft., steel tray, wooden handles, square front, 4 ply Pneumatic Rubber Tired wheel \$41.30

Ace—Lightweight Home barrow. Steel tray and handles, Semi-Pneumatic tire \$12.15

Jumbo-146—Lightweight for suburban and farm use, steel, semi-pneumatic tire \$20.60

JAX-Delux. Square front-ball bearing \$16.50

## WATER BALLAST LAWN ROLLERS Equipped with roller bearings.



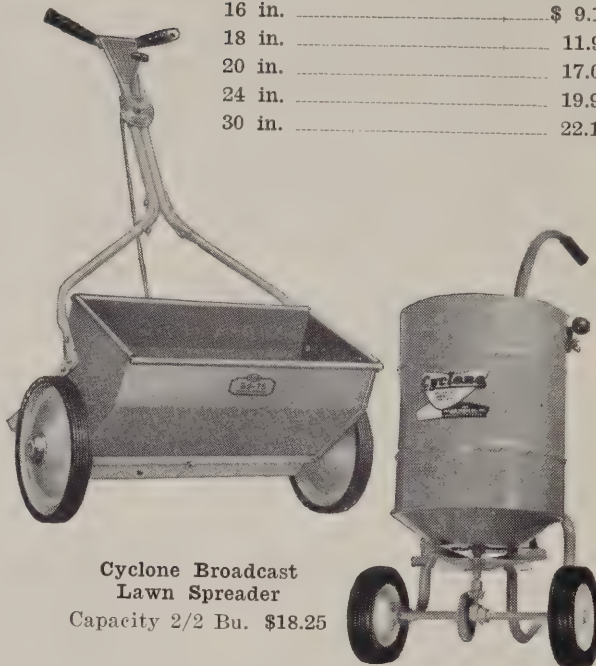
\$8.75

No. 0—14 x 20	\$13.95
No. 11—14 x 24	19.80
No. 12—18 x 24	22.20
No. 13—24 x 24	31.35
No. 14—24 x 32	44.95

## Lawn Spreaders

### JACKSON LAWN SPREADERS

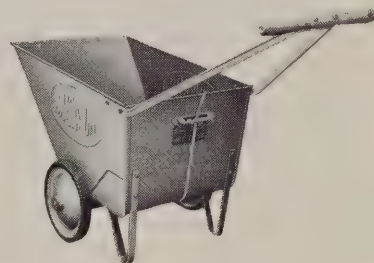
16 in.	\$ 9.15
18 in.	11.95
20 in.	17.00
24 in.	19.95
30 in.	22.15



Cyclone Broadcast  
Lawn Spreader

Capacity 2½ Bu. \$18.25

### JACKSON SPREADER-CART



Two in one utility — 3½ cu. ft. capacity semi-pneumatic tires \$19.10

### Two in One Spreader-Cart

### GARDEN CART

Light, strong, welded all-steel body, steel axle and wheels with solid rubber tires. 18 in. wide, 27-in. long; capacity 2¾ cubic feet.

Standard \$7.75

### SCOTT'S LAWN SPREADERS

No. 20—16 in.	\$12.95
No. 35—17 in.	16.95
No. 75—24 in.	24.95

### LAWN SPIKER

#8 Spike Disc Aerator—16 in. width \$18.50

### HOSE REELS

REAL-REEL—Portable; unreel only hose actually needed; 5 ft. accessory hose connects leafproof coupling on side to water supply. Holds 150 foot of hose. Sturdy, all metal constructed. \$18.95.

#100 Detachable	\$ 7.90
#320 Caddy	18.70
#240 Wall Mount	7.60
#25 Utility	1.40
#20 Hose Hangers	.90

# HYPONEX

## PLANT FOOD

**Grows Better Plants Faster  
in SOIL, SAND or WATER**

Simply dissolve and water all your houseplants, garden flowers, vegetables, shrubs, lawn. Produces more and larger flowers and fruit. Excellent for seedlings, cuttings, transplants. Clean, odorless. Won't burn foliage or roots if used as directed. Contains all nutritional elements — plus vitamin B1. Feeds instantly.

REPLACEMENT OR REFUND OF MONEY  
Guaranteed by  
Good Housekeeping  
IF NOT AS ADVERTISED THEREON

3 oz. ....	\$ .25
7 oz. ....	.50
1 lb. ....	1.00
10 lb. drum .....	8.00
25 lb. drum .....	15.00
50 lb. drum .....	25.00
100 lb. drum .....	40.00

**HYPONEX is Clean, Safe, Odorless . . .**

**Will Not Burn Foliage or Roots . . .**

**Perfect for Hydroponic (Water) Culture . . .**

## Hyper-Humus

Hyper-Humus is decomposed vegetation of sedge-peat variety, specially processed before being milled. It contains from 2 to 3 times more organic matter than manure. It is odorless, sanitary, and is 80 to 90% pure organic matter, being especially valuable to the soil for the following reasons:

Hyper-Humus helps make topsoil out of subsoil.

It furnishes an excellent medium in the soil for nitrifying bacteria.

Promotes rapid development of root growth. Wonderful for seed flats, window boxes and indoor plants.

Benefits to the soil are long lasting. Organic matter aids soil bacteria in digesting soil minerals (sand, silt and clay particles).

It budgets commercial fertilizers and lime more effectively.

## HYPONEX is a Complete and Balanced Plant Food

Scientifically developed and tested, HYPONEX is a complete plant food highly concentrated in powder form, and water-soluble. 1 teaspoonful dissolved in a gallon of water provides liquid food for any plant, correctly balanced to nourish all parts of the plant. The food is immediately available to roots and as a result plant shows astonishingly fast development and growth. HYPONEX may be fed to plants as they are watered every week or ten days.

### For All House Plants, Garden Flowers, Vegetables, Shrubs, Trees, Lawns . . .

With HYPONEX and water, plants will respond quickly, growing sturdily, flower and fruit abundantly regardless of the fertility of the soil. . . . In fact, finest growing results are assured in poorest soil, even in sand or water (hydroponics) since the food is balanced to meet every need of the plant. HYPONEX has been tested on thousands of varieties of plants, indoors and out, with amazing results in root, stock and foliage development. Flowering plants bloom more abundantly, fruiting plants and vegetables give greater yields, lawns develop thicker texture, trees and shrubs attain greater beauty and health.

### How To Use HYPER-HUMUS To Improve Lawns and Gardens

**NEW LAWNS**—Add one inch of Hyper-Humus to the top 5 inches of subsoil, plus a good commercial fertilizer — spade or rototill thoroughly. This will give you 3% organic matter in the top 5 inches of soil, which is as good or better than purchased topsoil and *a much cheaper operation*. The area is then levelled off, seeded, rolled, and watered.

**OLD LAWNS**—For top dressing spread 100 lbs. Hyper-Humus per 300 sq. ft. of lawn area. Work in with back of rake. If applying fertilizer at the same time, some people mix with Hyper-Humus in equal parts.

For vegetable gardens and flower beds, use one  
? ? ? ? on

Extremely effective in counteracting plant toxins.

5 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50; 500 lbs., \$11.25; 1000 lbs., \$18.50; ton, \$33.00.

LET US QUOTE LARGER QUANTITIES



## STICKIT WICKET FENCING



**PROTECTS AND BEAUTIFIES**

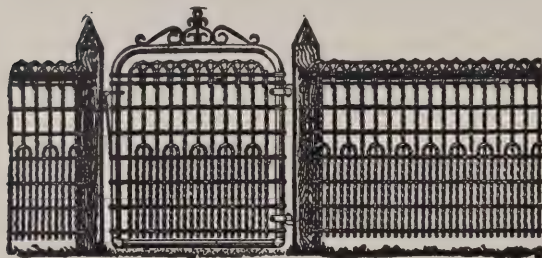
Easy to hammer  
into hard ground

21" High, 12" Wide,  
1/4" steel enameled green

**\$2.40**  
Doz.

In cartons of two dozens  
(makes 24 feet of fence)

## ORNAMENTAL LAWN FENCE



Very attractive and we believe the most durable wire lawn fence made. Heavy galvanized. Spaces, 1 1/2 inches; wire, No. 9 1/2 Crimped Pickets in No. 12 1/2 Tw. Cables.

		36-inch		42-inch		48-inch	
		Per ft.	100 ft.	Per ft.	100 ft.	Per ft.	100 ft.
Single	Loop.....	\$.24	\$22.50	\$.28	\$25.25	\$.32	\$28.75
Double	Loop.....	.32	28.75	.35	33.25	.40	36.50

## FLOWER GUARD



Designed for protecting Flower Beds

22-inch, per foot, 16c; 100 ft. roll, \$14.00

## HARDWARE CLOTH

2x2	\$.13 sq. ft.	4x4	\$.15 sq. ft.
3x3	.14 sq. ft.	8x8	.21 sq. ft.

100 sq. ft. or more deduct 1c per sq. ft.

## ORNAMENTAL GATES

Heavy steel frames, filled to match the fence; fittings for 1 1/2 in. iron posts included.

Width	Height	Price
42-inch	36-inch	\$ 8.90
42-inch	42-inch	10.25
42-inch	48-inch	10.95

## ELECTRIC FENCE CONTROLLER

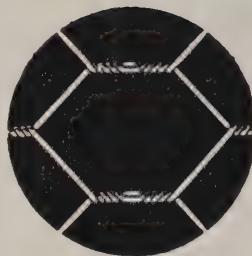
**SHOX-STOK:** Precision built for long life, waterproof steel case, charges up to 15 miles of fence. Complete with fence tester, cord and plug.

**Delux Electronic Model,** Interrupted impulses.  
Fuse protection against overload \$21.95

**Electric Model P.H.5,** No moving parts, continuous shock \$15.95

## POULTRY NETTING

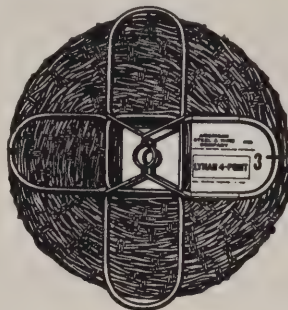
Galvanized After Weaving



### 150-FOOT ROLLS

2-inch Mesh	1-inch Mesh
20 gauge	20 gauge
24 inch \$5.35	12 inch \$5.90
36 inch 7.60	18 inch 8.50
48 inch 10.15	24 inch 10.95
60 inch 12.30	36 inch 16.15
72 inch 14.55	48 inch 21.50
25 to 150 foot lengths	
2-inch mesh 3c per sq. ft.	
1-inch mesh 5c per sq. ft.	

## Hex-Cel



## BARBED WIRE

**GALVANIZED**

4 point, 12 gauge, 6 ins.  
between barbs. 80 rod reel  
\$11.00

**POST HOLE DIGGERS**  
\$5.80

**EARTH AUGERS**  
8-8-14 in. \$14.95

## TOWNSEND WIRE

**STRETCHER**

No. 500. Has hickory handle and malleable clamp; can be quickly adjusted. \$3.50.

## ICE CREAM FREEZER



## PARCHMENT BUTTER PAPER

Sizes 6x9, 9x12. Lb., 65¢  
Postage Extra

## DANDELION BUTTER COLORING

3 oz. \$ .60  
1 lb. 2.50

**Snowball (Triple Action).** 2 qt., \$15.75; 4 qt., \$17.50; 6 qt., \$21.75  
4 qt. Electric, \$31.50.

## SIMPLICITY GARDEN TRACTORS

Model A-2 3/4 H.P. \$168.00

Model FC-4 H.P. 278.00

Model VB-7 H.P. 345.00

Wonder Boy Riding Lawn Mower 285.00

Wonder Boy with Electric Starter 345.00

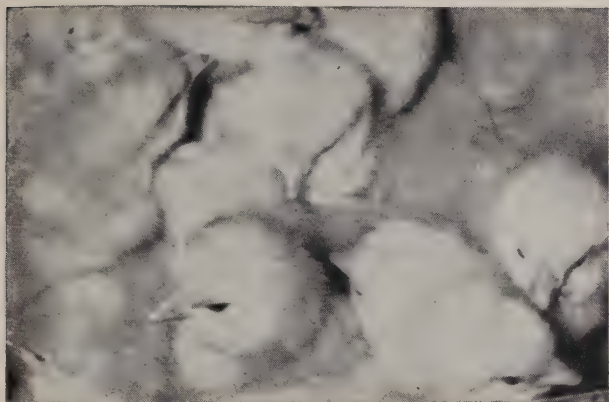
Attachments for Tractors and Lawn Mowers  
also available.

## LEAF-TRASH BURNER



Aluminized Steel, holds 20 bus. Removable ash pan for easy ash disposal. Collapsible for easy storing.  
\$59.95

**MANN'S CHICKS**  
**FROM UNITED STATES APPROVED—MARYLAND**  
**STATE SUPERVISED AND INSPECTED FLOCKS**  
**PROVEN TO BE PULLORUM FREE**



**WE GUARANTEE DELIVERY**  
**100% LIVE VIGOROUS CHICKS**

With Profit Producing Characteristics Bred Into Them



Mann's chicks are produced from hand selected, Blood-Tested, hens mated to large, true-to-type Blood-Tested, well bred cockerels. These breeders are continually culled for egg production and vigor to insure you of chicks that will not only live, but will grow uniformly, rapidly and profitably for meat or egg production. Upon maturity you will have strong and healthy pullets capable of making money.

**ORDER EARLY—SPECIFY DATE WANTED**

Order Early. Prices are subject to change but you will be given full benefit of any reduction in prices until shipping date.

Rock-Red Cross	\$16.00 per 100
New Hampshire Reds	16.00 per 100
White Leghorns	16.00 per 100
Pullets—price on application.	
25 add .04c each—50 add .02c each	

**TURKEY POULTS,**

Broad Breasted Mammoth Bronze, 25, \$25.00; \$90.00 per 100. Beltsville White. 25 for \$20.00; 100, \$70.00. Minimum order 25 Poults.

High Quality...Economical

**POULTRY REMEDIES**

**Feeds**

Starter • Grower • Egg Ration  
 Chick Grains • Scratch Feed  
 Rabbit Pellets • Pigeon Feed

**PRICED RIGHT**

**LEE'S POULTRY REMEDIES**

**ACIDOX**, 4 oz., 50c; 12 oz., \$1.00; 32 oz., \$2.00; ½ gal., \$3.50; 1 gal., \$6.50.  
**GIZZARD CAPSULES—Adult** 50-75c; 100-\$1.35.  
**GIZZARD CAPSULES—Pullet** 50-60c; 100-\$1.10.  
**GIZZARD CAPSULES—Chick** 50-45c; 100-85c.  
**LEEMULSION**, 12 oz., \$1.25.  
**TONAX**, 2 lb., \$1.00.  
**VAPO-SPRAY**, pt., 60c; qt., 90c; gal., \$2.50.

**AVICOL**

For white diarrhea. 60 tablets, 50c; 180 tablets, \$1.00.

**DON SUNG**

Makes hens lay. 45 tablets, 50c; 135 tablets, \$1.00.

**GROUP-OVER**

For Colds, Roup and Canker. 3 oz., 50c; 8 oz., \$1.00.

**"T. S. F."**

Kills chicken lice. ½ lb., 50c; 1 lb., 75c.

**CEL-O-GLASS**

Now guaranteed for 5 years. Unbreakable weather proof, transmits violet rays (Glass does not). Ideal for poultry house, fronts, windows, and doors, and many other uses. 36 inches wide, 45c per ft.; 50 ft. rolls 39c per foot.



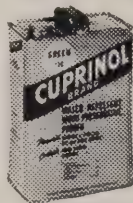
**R-V-LITE VITAPANE**

36 inches wide (cord base) 24c lineal foot  
 50 ft. roll (150 ft.) \$12.00 roll



Brush, spray, dip or cold soak. Penetrates deeply into the wood, becomes fixed and does not leach out. Coverage is 250 to 600 square surface feet per gallon depending on finish and porosity of the wood.

#10 Green. Use on wood that will be in contact with water, soil or masonry. 98c pt.; \$1.75 qt.; \$4.70 gal.; \$22.00 5 gal.; \$210.00 50 gal.



#14 Green. Use around greenhouses. Recommended for dip or cold soak treatments. 5 gal., \$14.90; 50 gal., \$132.50.

#20 Clear. Use where natural wood finish is desired or as preservative under stain or varnish. 98c pt.; \$1.75 qt.; \$4.70 gal.; \$22.00 5 gal.; \$210.00 50 gal.

**RAT KILLERS**

**WARFARIN.** The amazingly effective rat killing ingredient perfected by the Wisconsin Alumni Research Foundation.

**K.R.O. CONCENTRATED.** Warfarin Rat and Mouse Killer. Active ingredient .5% Warfarin. 2 oz. makes 2½ lbs. bait. 2 oz., \$1.25; 4 oz., \$2.00.

**D-CON MOUSE-PRUFE.** 2 oz., 49c.

**D-CON READY MIX.** Active ingredient .025% Warfarin. 1 lb., \$1.69.

**D-CON WARFICIDE**, water soluble. ¼ oz. pkg., 39c.

**SLA-RAT.** Contains .025% Warfarin. 8 oz. can, 65c; 1 lb., \$1.00.

**RED SQUILL RAT KILLERS** are Non-Poisonous to Pets or Live Stock.

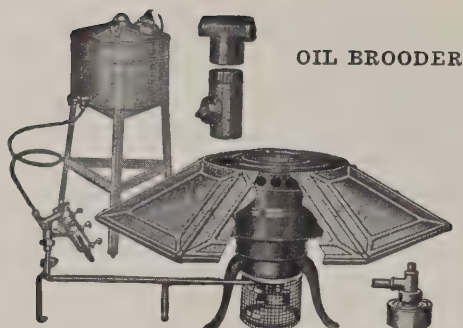
**K.R.O. Ready Mix.** ½ lb., \$1.25.

**K.R.O. Powder.** 2 oz. (Mix with 2 lbs. bait) \$1.00.

**RAT NOTS.** 9 "Nots," 35c; 50 "Nots," \$1.25.

**MOUSE NOTS.** 9 "Nots," 35c; 50 "Nots," \$1.00.





**OIL BROODER**

256B—54 inch; 8-gallon tank; 500 chicks. Without Fuel Stand. \$27.15.

**ELECTRIC BROODERS**

No. 50—Galv. 24"x36"x9½" deep, feed and water trough included, thermostat controlled, 100 chick cap. \$18.91.

UB42—Galv. Metal, 500 watt enclosed type heater, with thermostat, size 36 in. by 42 in., capacity 200 chicks. \$20.00.

302. Galv. metal chick battery unit with 150 watt acra heater, micro switch and wafer thermostat. Size 23 x 36 inches. Capacity 100 chicks. \$18.95.



**REEL TOP FEEDER**

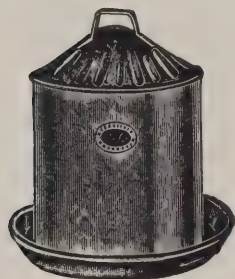
118—18 in. galv. ....\$ .45      H224—24 in., galv. ....\$ .57  
H5480—48 in, galv. ....\$2.00

**GRILL TOP FEEDER**

H7480—48 in. galv. ....\$2.55



**SINGLE WALL FOUNTAINS**



**TOP FILL FOUNTAINS**

HK5—5 gal. galv. ....\$4.24

**FOUNTAIN HEATERS**

H5H—Oil, fits any 15 or 15½ in. pan. \$3.00

H82—Lamp with burner and wick. \$2.10.

H570—Elec., fits any 5 to 10 gal. fountain. \$8.00.

**FLOCK FEEDERS**

HA8—2 gal. galv. ....\$1.45

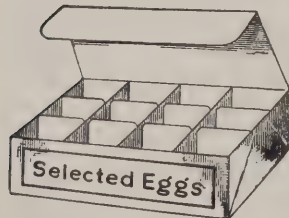
HC3—3 gal. galv. ....2.50

HC5—5 gal. galv. ....3.35

H25S—60 in. galv. ....\$ 6.95

H28S—96 in. galv. ....11.15

**EGG CARTONS**



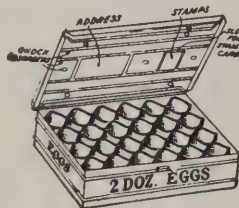
Carry Safe, 3x4. 100, \$2.00; 250, \$4.35.

Eagle, 3x4. 250, \$3.90.

White Chief, 2x6. 250, \$5.75.

Hawk, 2x6. 250, \$4.35.

**METAL EGG CRATES**



2-doz. size .....\$2.50

3-doz. size .....3.00

4-doz. size .....3.50

6-doz. size .....4.00

Postage Extra

**FEEDER AND WATERER**



G16L—16 in. dia. 4½ in. high, 16 qt. capacity. \$3.25.

**EGG PRESERVATIVE**



Qt., 85c;  
gal., \$2.40

**EGG CANDLER**

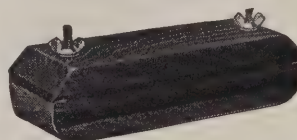
700 .....\$2.25

842—Capacity 20 lbs. by ounces in two revolutions; adjusted by set screw at top; 8 in. dial, figures in black on white enamel. Heavy galv. scoop and chain. \$9.50.

**WIRE EGG BASKETS**

EB15—Cap. 12 to 15 doz. \$1.30.

**EGG CLEANERS**



517 Egg Grading .....\$2.00

13 .....\$ .40

14—10 ft. Cleaning Cloth 1.40 T-347—DeLuxe. 3-in. \$5.00

**ELECTRIC THERMOSTAT SWITCH**

For use with wafer .....\$1.75

**HUDSON BARN EQUIPMENT**

2A—Stall, \$15.60.

181W—Stanchion, \$5.64.

181—Stanchion, \$4.85.

89B—Water Bowls, \$7.40

462—Hay Carriers, \$37.60.

268—Harpoon Fork, \$7.80.

249S—Rafter Brackets, \$1.35

290—Hanger Hooks, 50c ea.

401—Track, 62c ft.

**DAIRY SUPPLIES**

BAG BALM, 10 oz. canister, \$1.25.

CALF WEANERS, No. 103 Medium, \$1.25; No. 2, \$1.50.

KOW KARE, 2¼ lb., \$1.59.

TEAT DILATORS for Cows, box of 18, 25c.

PERFECTION ANTI-COW KICKERS, \$1.75.

**ROOF SADDLE**

440. Adjustable. 4 in., \$1.25.

HRS5—5 in., \$2.25.

**CHICKEN HOUSE FLOOR SCRAPER**

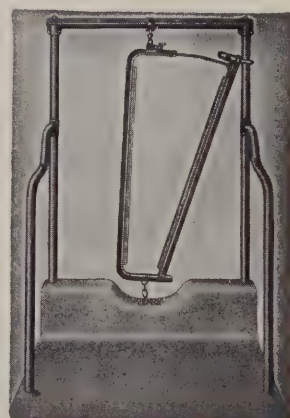
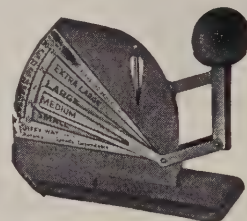
Pointed sides for corners. \$2.15.

**SCALES**

895—Spring Balance. Capacity 50 lbs. by 1 lb. \$3.95.



842



# Fertilizers — Plant Foods

Plants require nitrogen, phosphorus, potassium (the three most important), and minor elements.

These minor elements are calcium, sulphur, magnesium, manganese, iron and boron. Their functions are largely indirect, but very essential as they aid the chemical changes which render other ingredients more available. Calcium (lime), for example, aids in making the nitrogenous materials more quickly available and changes the physical nature of soils. Sulphur seems to exert a beneficial influence on plant growth and iron is necessary in the formation of chlorophyll.

**NITROGEN** is the "top growth" element needed for leafy vegetables such as spinach, kale, parsley, etc. Aside from mixed fertilizers, nitrogen can be had in various organic forms as in bone meal, blood meal, tankage, fish meal, cottonseed meal and inorganic forms such as nitrate of soda (tending toward an alkaline reaction), ammonium sulphate (tending toward an acid reaction), urea and potassium nitrate. The organic materials are safest to use as they react slowly.

## NUTRO PLANT FOOD PELLETS

Complete plant food for lawns, flowers, vegetables, shrubs, and trees. Pellets are safe and give gradual feeding over longer period of time. 10 lbs., \$1.05; 25 lbs., \$1.90; 50 lbs., \$2.98; 100 lbs., \$5.60.

## AZALEA-CAMELLIA FOOD

Special formula, scientifically blended for all acid-loving plants. 5 lbs., 65c; 10 lbs., \$1.25; 25 lbs., \$2.00.



### AGRICO FOR LAWNS, TREES & SHRUBS

Keep a lawn good by feeding it with Agrico every Spring and Fall. Use Agrico in rebuilding lawns. Also, feed your trees and shrubs. Use 30 lbs. per 1000 sq. ft.

100 lbs. ....	\$5.40
50 lbs. ....	2.75
25 lbs. ....	1.75
10 lbs. ....	1.10
5 lbs. ....	.60



### AGRICO FOR GARDENS

Use this special-purpose Agrico for flowers of greater health and beauty—and for larger yields of vegetables, richer in minerals and vitamins. Use 40 lbs. per 1000 sq. ft.

100 lbs. ....	\$5.00
50 lbs. ....	2.55
25 lbs. ....	1.60
10 lbs. ....	1.10
5 lbs. ....	.60



### AGRICO FOR BROADLEAF EVERGREENS

This AGRICO provides all needed plant foods for acid-loving plants,—also acidifies the soil, essential for best results. Use approximately 1½ lbs. per 100 running feet.

100 lbs. ....	\$6.25
50 lbs. ....	3.15
25 lbs. ....	2.00
10 lbs. ....	1.25
5 lbs. ....	.65

## AGRINITE

### All-Organic Plant Food

25 lbs., \$2.00; 50 lbs., \$3.55; 80 lbs., \$5.30.  
50 lbs. bag .....\$3.75

## AGRICO BULB FOOD

10 lbs. ....\$1.50  
5 lbs. .... .90

## AGRICO FOR TURF

Contains Organic Nitrogen plus "Urea-Form"

80 lb. bag .....	\$6.50
50 lb. bag .....	4.25
25 lb. bag .....	2.40

**PHOSPHORUS** is generally the most needed element, as the continued use of manures possessing such a little of it, combined with the fact that most crops are heavy phosphorus feeders, soils worked for a number of years are practically depleted of this element. A real fertile soil is rich in readily available phosphorus. It is the element which promotes growth and vigor, flowers, fruit and seeds. Beans, corn, cucumber, tomatoes, turnips and rutabagas seem to respond to heavy feedings of phosphorus. It is available in mixed fertilizers, superphosphate, bone meal and tankage.

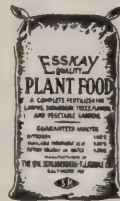
**POTASH** is the root growing element. Asparagus, beets, carrots, celery, cucumbers, lettuce, potatoes and radish all respond to extra potash feeding. Sulphate of potash is best for tobacco, lettuce and leaf crops, while muriate of potash is most beneficial to carrots, potatoes and other root crops.

## AGRICO ROSE FOOD

Specially prepared for proper feeding of roses. 10 lbs., \$1.50; 25 lb., \$3.05; 50 lb., \$5.30; 100 lbs., \$10.50.

## TRIOGEN ROSE FOOD

5 lbs., 98c; 10 lbs., \$1.69; 25 lbs., \$3.50; 80 lbs., \$8.50.



## ESSKAY PLANT FOOD (Analysis: 5-9-4)

A complete organic fertilizer consisting of blood, bone meal, tankage and potash scientifically blended for Flowers, Lawns, Vegetables, Trees and Shrubs. It builds up the soil and leaves no acid residue. 10 lb., 95c; 25 lb., \$1.90; 50 lb., \$2.75; 100 lb., \$4.75.

## VERTAGREEN

For lawns, flowers, shrubs, fruits, vegetables and trees. It contains, in concentrated readily available forms, major and minor plant food elements needed for healthy, vigorous growth. 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$1.75; 50 lbs., \$2.75; 100 lbs., \$5.15.

## VIGORO

1 lb. ....	\$ .15	5 lbs. ....	\$ .65	10 lbs. ....	\$1.05
25 lbs. ....	1.80	50 lbs. ....	2.75		

## GOLDEN VIGORO

25 lbs., \$2.70; 50 lbs. \$4.10

## SCOTTS TURF BUILDER

1,000 sq. ft., \$1.50; 2,500 sq. ft., \$2.75;  
5,000 sq. ft., \$4.50.

## GREEN NUTRO

### Natural Soil Builder

Available 0-2-5; Total 0-18-7

Finely ground natural rock containing phosphorus, potash and thirty minor and trace elements plus an activated carbon base. On lawns and gardens use 10 lbs. per 100 sq. ft. Large areas ½ ton per acre. \$2.75 per 80 lbs. \$50.00 ton.

## ACTIVO

Popular composting chemical makes rich organic fertilizer out of vegetable waste. Stretches fertilizer; activates soil. No. 2 Size (approx. 2 lbs.) makes about 425 lbs. compost, \$1.00. No. 7 Size (approx. 6 lbs.) makes about 1400 lbs. compost, \$2.95.

## ADCO

Is a powder, which, when mixed with almost any non-woody vegetable waste, and kept wet, gradually converts it into manure.

50 pounds of ADCO makes a ton of manure. Equal to stable manure—Odorless. 5 lbs., \$1.35; 20 lbs., \$2.75.



# VITALIZE ROSES, TREES, SHRUBS & LAWNS

## DIP ROOTS OF YOUR SHRUBS, TREES AND PLANTS IN A SOLUTION OF RA-PID-GRO

Overcomes the shock of transplanting, gives them a healthier start.

Add 22 gallons of water to each pound of RA-PID-GRO. Use tub or pail and place roots in the solution.

TREES—Four minutes.

SHRUBS—Three minutes.

EVERGREENS WITH BALL—Five minutes. (Leave burlap on).

VEGETABLES and PLANTS—Dip and out.

BERRIES (all kinds)—One minute.

STRAWBERRIES—Dip and out.

Use remaining solution for watering after planting.



## Analysis 23-21-17

### PRICES

6 oz. Metal Envelope ..	50c
8 oz. Can .....	75c
1 lb. Can .....	\$1.30
2 lb. Can .....	\$2.50
5 lb. Can .....	\$4.75
10 lb. Can .....	\$8.75
25 lb. Drum .....	\$21.00
50 lb. Bag .....	\$42.00

## BASE FEEDING . . .

4' to 5' trees—one gallon liquid RA-PID-GRO.

6' to 7' trees—two gallons.

For larger trees add one-half gallon to every two feet in height.

Shrubs, Roses—2-4 qts. liquid RA-PID-GRO.

## FOLIAGE FEEDING . . .

1 level teaspoon RA-PID-GRO to 2 qts. of water.

Spray foliage with liquid RA-PID-GRO until leaves are thoroughly covered.

Spray in the early morning preferably.

### GRO-STUF 20-20-20



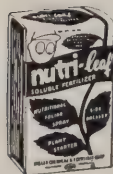
Use on house plants (African Violets, Philodendron, Ivy, Begonias) roses, flower and vegetable gardens, shrubs and lawns. Contains all the necessary chemicals—nitrogen, phosphoric acid, potash—plus hormones and trace elements needed to make stuff grow.

5 oz. can .....	\$0.49
1 lb. can .....	1.25
4 lb. can .....	3.75

### HY-GRO SOLUBLE PLANT FOOD

13-26-13-Plus Trace Elements

5 oz., 39c; 1 lb., \$1.19; 3 lbs., \$2.98; 5 lbs., \$4.10; 10 lbs., \$7.25



### NUTRI-LEAF (20-20-20)

The Miracle Plant Food Concentrate Soluble Fertilizer and Foliage Spray

3 lbs. to 50 gal. water or spray	
1 lb. ....	\$1.00
5 lb. bag .....	2.50
30 lbs. (10-3's) .....	8.50

### ROOT FEEDER

\$5.98

### EXTRA PLANT FOOD CARTRIDGES

All Purpose (8-16-8)  
Acid (10-20-20)  
Starter (9-46-15)  
Rose Plus Iron (16-25-10)  
\$1.00 dozen

## FULTON'S PLANTABBS Odorless Plant Food Tablets Containing Vitamin B<sub>1</sub>



### VHPT—(6-25-15)

1 lb., makes 30 gal.

Vitamin Hormone plant food soluble fertilizer plus all essential minor elements, in quickly available form. Used as starter solution, side dressing, etc., with outstanding results. 1 lb., 75c; 3 lbs., \$1.50; 30 lbs., \$7.50.

## ROSS ROOT FEEDER

Feeds as you water

(1 doz. cartridges free with each feeder)



Iron Chelate Cartridges  
\$1.50 dozen

Iron (Soil Corrective) (5-35-10)

For treatment of iron chlorosis. Sequestrene Chel. 330 blended with plant food. First cartridge ever developed for iron deficiency.

## Fertilizers

### LIST PRICE

Crop	Analysis	80 lb. Bag
Asparagus, Corn, Peas, Potatoes and non-legume pastures.	10-10-10	\$4.40
Top dresser, Spinach, Kale, Cab. bage, Lettuce, etc., Lawns, Trees.	10- 6- 4	3.50
Potato, Lima Beans, Snap Beans, Tomato.	5-10-10	3.25
Alfalfa, Clover, Soybeans, Cow-peas, Wheat, Rye, Pastures, Barley, Top dress legumes.	0-14-14	3.00
	0-20-20	3.95
Corn, Tomatoes, Peas, Beans, Strawberry, Asparagus, Leafy Vegetables.	5-10- 5	3.00
	25 lbs.	1.15
20% Superphosphate	0-20- 0	2.30

### ES-MIN-EL

Essential minor elements not present in depleted soils. ft., 50 lbs., per acre. 5 lbs., \$1.25; 100 lbs., \$10.25.

### IRON CHELATES

Excellent for Iron Starved Azaleas, Camellias, Gladioli, Rhododendrons, Roses, Magnolia, Pin Oak, etc. A soluble form of iron that works wonderfully fast in correcting iron deficiencies in many plants.

#### MILLER CHELATE (EDTA 12.9% oxide)

4 oz., 89c

#### SEQUESTRENE (EDTA 17.0% oxide)

For use on plants growing in acid soils.  
4 oz., \$1.19 1 lb., \$2.98

#### SEQUESTRENE No. 330 Fe (DTPA 14.9% oxide)

For use on plants growing in slightly acid or alkaline soils.  
1 lb., \$2.95; 5 lbs., \$9.00

### LAWN & GARDEN CYANAMID

Kills Weeds and Weed Seeds—makes humus from compost  
10 lbs., \$1.85; 25 lbs., \$3.75; 50 lbs., \$6.50.

## Agricultural Chemicals, Etc.

	lb.	10 lbs.	25 lbs.	100 lbs.
Aluminum Sulphate	\$.15	\$.75	\$1.50	\$4.85
Asparagus Salt	-----	.40	.75	2.15
Borax	.15	.60	---	---
Calcium Chloride	-----	.60	1.25	4.50
Copper Sulphate (powdered)	.30	2.00	4.25	15.00
Epsom Salts	.15	.75	1.50	5.00
Hydrated Lime	-----	.35	(50 lbs., 75c)	---
Iron Sulphate (Crystal)	.20	1.00	2.00	4.00
Muriate of Potash	.15	.75	1.50	5.00
Nitrate of Soda	.15	.70	1.50	4.75
Sulphate of Ammonia	.15	.75	1.50	5.00
Sulphate of Potash	.15	.75	1.50	5.00
Super Phosphate (20%)	.15	.45	.85	---
Top Soil	-----	.50	.90	2.25
Zinc Sulphate	.20	---	---	---

### VERMICULITE (Terra-Lite Brand)

Cuttings of even very difficult varieties are easily rooted. Vermiculite has many other horticultural uses such as soil corrective, mulch, for bulb storage, etc.  
4 cu. ft. bag \$2.25 ½ Bu. 85c  
2 bu. bag 1.75 4 qt. bag 40c

## Organic Plant Foods

	lb.	5 lbs.	10 lbs.	25 lbs.	50 lbs.	100 lbs.
Blood Meal	\$.20	\$.70	\$1.25	\$2.75	\$5.25	\$10.00
Bone Meal, Raw	---	.60	1.00	2.00	3.85	7.25
Bone Meal, Steamed	---	---	---	---	---	5.50
Cottonseed Meal	---	.50	.85	2.00	---	7.00
Cattle Manure	---	.60	.90	1.45	2.35	4.25
Cow Manure (Bovung)	---	.65	1.10	1.65	2.85	---
Ground Phosphate Rock	---	---	---	---	---	1.85
Pulverized Ground Limestone	---	---	---	---	---	---
Dolomitic High Magnesium	---	---	---	---	20 lbs.,	85
Sheep Manure	---	.60	.90	1.45	2.35	4.25
Tobacco Dust	.15	.35	.60	1.25	2.00	4.00
Tobacco Stem Meal	---	---	.50	1.00	1.90	3.55
ATLAS FISH EMULSION—(Organic)—Liquid.						
4 oz., 39c; pt., \$1.00; Qt., \$1.90; Gal., \$6.25.						

## Michigan Peat

100 LBS. \$4.49  
50 LBS. \$2.49 25 LBS. \$1.69

## Peat Moss

Promotes Growth by Improving Texture of Soils and as a mulch, keeps roots moist and cool; discourages weeds. Ideal for rose beds and perennial borders.

Standard Bale (approx. 36x19x19) 100 to 120 lbs. when packed. German Horticultural.  
Bale, \$4.90; Half Bale, \$2.75; Bu., \$1.25; Pk., 35c.

## Orchid Peat

(Osmunda Fibre)

1 lb., 75c, Bale, \$14.00

## Fiestar

Multi-purpose soil treatment, 99% organic, contains turf stimulant, soil conditioner, insecticide and crab grass inhibitor.

50 lbs.—treats 500 sq. ft.—\$5.95

## Sphagnum Moss

Finest quality. Free from sticks and other refuse. Pk., 50c; Bu., \$1.50; Bale, \$3.75.

"Nodampoff"—prepared sphagnum seed starting medium—89c box.

## African Violet Soil

Specially prepared organic potting soil for African Violets. 4 lb pkg., 39c; 48 lbs., \$3.90.

## Buckwheat Hull Mulch

In winter it reduces alternate freezing and thawing, thus protecting roots from destructive heaving. Does not form crust but permits even light rains to reach the soil. Packed in 50 lb. bags (covers about 65 sq. ft. 2 in. deep), \$2.50. Let us quote quantities.



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**ZINNIA, FANTASY MIXED**  
Pkt. 15c; 1/4oz. 60c



**DWARF STAR PHLOX, TWINKLE.** All-America Selection  
Pkt. 15c; 1/8oz. \$1.65; 1/4oz. \$3.00

*Mamms*

**SUPERIOR  
FLOWER SEEDS  
FRESH  
HIGH VITALITY  
DEPENDABLE**

*For Critical  
Commercial  
Growers and  
Gardeners*

ROSE, SPARTAN  
\$2.75; 3 for \$7.20

**Choose Your Roses**  
from page 40



**PETUNIA, FIRE CHIEF**  
Pkt. 25c; 1/16oz. \$1.65; 1/8oz. \$2.90

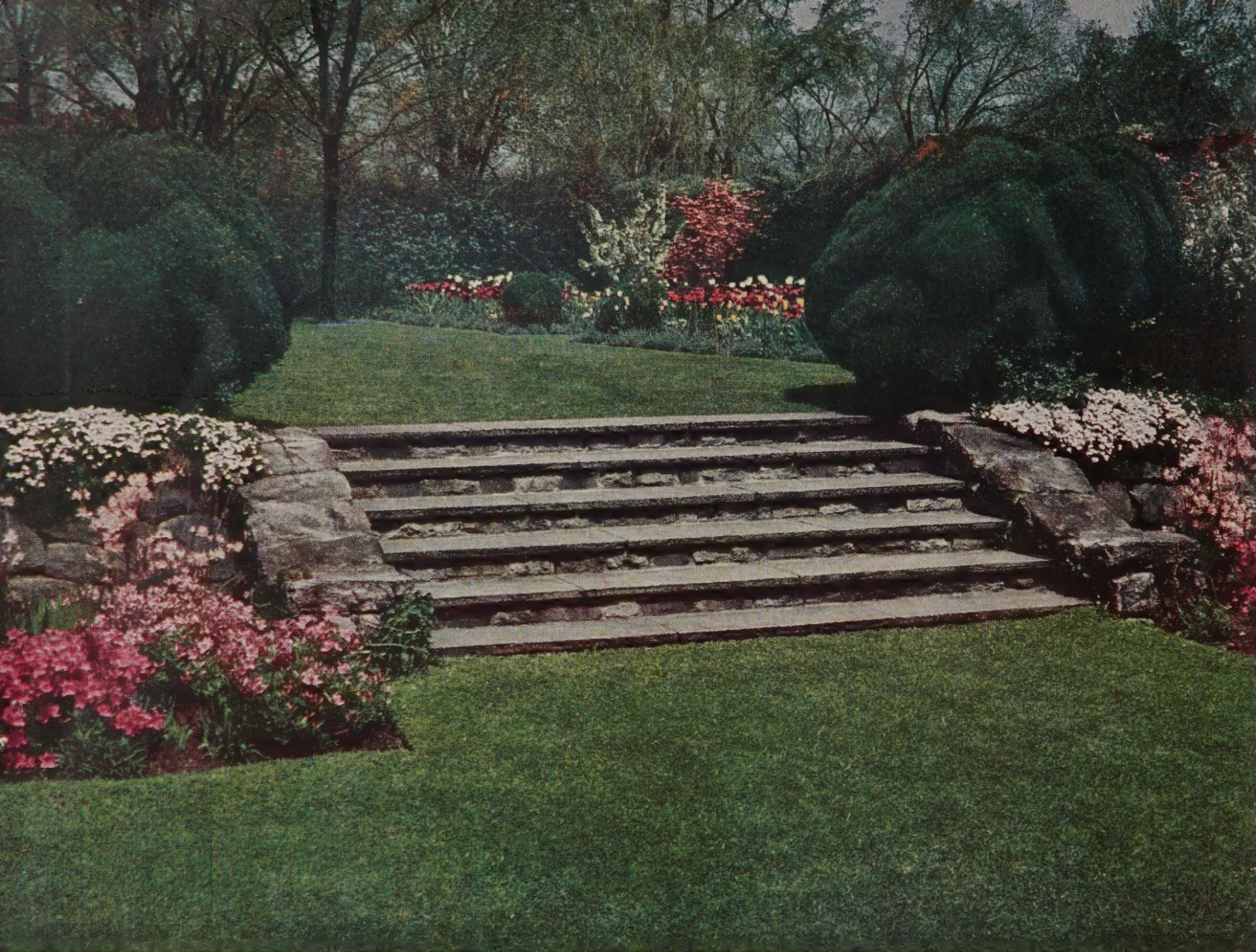
**MARIGOLD, PETITE VARIETIES**

All-America Award Winners for 1958. Pictured here is the mixture of the four new varieties. **Pkt. 25c**

**LARKSPUR, GIANT IMPERIAL DOUBLE MIXED**  
Pkt. 15c; 1/4oz. 50c; oz. \$1.25; 1/4lb. \$3.75







**Mann's**

## LAWN GRASS SEEDS

*Superior Quality*

**Specially Formulated for Maryland Soils and Climate**  
**BASED ON OVER 70 YEARS EXPERIENCE**

### Superior Lawn Grass

No Rye Grass—No Clover 100% Permanent Varieties  
 Formulated with seeds of highest purity and germination. Produces beautiful and permanent turf of fine texture in full sun or partial shade.

1 lb. .... \$1.65 5 lbs. .... \$7.50 25 lbs. .... \$35.00

### Merion Bluegrass Formula

Blended with new grass development by Penn State University and U. S. Dept. of Agriculture. Insures permanent cover in sun or shade. Turf improves with age.

1 lb. .... \$1.95 5 lbs. .... \$8.95  
 3 lbs. .... 5.70 25 lbs. .... 42.50

### Maryland Estate Formula

No Rye Grass—No Clover 100% Permanent Varieties  
 Produces beautiful and permanent lawns of fine texture under conditions of full sun or partial shade.

1 lb. .... \$1.25 5 lbs. .... \$5.95 25 lbs. .... \$29.00

### Evergreen Lawn Grass

Contains Clover  
 Makes quick lawn of lasting beauty.

1 lb. .... \$0.90 5 lbs. .... \$4.25 25 lbs. .... \$19.00

### Shady Place Grass Seed

100% Permanent Varieties  
 Contains varieties especially adapted for shade.

1 lb. .... \$1.25 5 lbs. .... \$5.95 25 lbs. .... \$29.00

### Shoreland Grass Seed

100% Permanent Varieties  
 Turf varieties particularly adapted to sandy soils.

1 lb. .... \$1.10 25 lbs. .... \$24.25  
 5 lbs. .... 5.25 100 lbs. .... 95.00

### Quicklawn Grass Seed

Contains 50% by Weight Perennial Varieties  
 For immediate effect where permanence is not an important factor.

1 lb. .... \$0.45 25 lbs. .... \$9.50  
 5 lbs. .... 2.00 100 lbs. .... 35.00

**Scott's** Lawn Seed and "Lawn Care" Supplies  
 —at advertised prices—

**See Special Pages on Lawn Making and Maintenance**